

19990113.qrp v01_n335.qrl.990113

Date: Wed, 13 Jan 1999 19:03:19 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1335

QRP-L Digest 1335

Topics covered in this issue include:

- 1) [29519] Re: I Need a UTC watch....!!
by kkanalz@optelinc.com
- 2) [29520] Re: prohibited contacts?
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 3) [29521] Re: prohibited contacts?
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 4) [29522] Re: I Need a UTC watch....!!
by Jim Knopf <ki7q@yahoo.com>
- 5) [29523] Re: Iambic paddle usage
by Anita och Lars Olsson <anita.lars.olsson@telia.com>
- 6) [29524] Any Norcal QRPp arrived in Canada?
by "Alyn Backe" <ve6bpr@cnnnet.com>
- 7) [29525] RE: TS-50 vs Alinco 70x
by "Mike Rioux" <mike@rioux.org>
- 8) [29526] Great Day on QRP-L
by "Randy Moore" <wr.moore@worldnet.att.net>
- 9) [29527] UTC watch summary... (soon)
by "Radman" <radman@best.com>
- 10) [29528] A NORCAL number of my own
by Jim Knopf <ki7q@yahoo.com>
- 11) [29529] NVIS followup
by gsurrency@juno.com (Gary L Surrency)
- 12) [29530] Re: WSN-40 Saturday Net QNI's
by Todd <kb4dpf@visi.net>
- 13) [29531] Re: TS-50 vs Alinco 70x
by "Radman" <radman@best.com>
- 14) [29532] NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold your peace...
by mike1@urbancom.net (Dinelli, Michael)
- 15) [29533] Re: Surface mount Electroletics
by "Radman" <radman@best.com>
- 16) [29534] Re: Iambic paddle usage
by w2bj@juno.com (Barry J Minsky)
- 17) [29535] Re: Any Norcal QRPp arrived in Canada?
by Paul Harden <pharden@aoc.nrao.edu>
- 18) [29536] No Fox heard...DRAT
by Fred Lesnick <flesnick@tbaytel.net>

- 19) [29537] Noise source: VCR's
by "Mullins family" <mmullins@mastnet.net>
- 20) [29538] Casio Clock with temp, day/date, 24 hour readout for trade
by mwattcpa@earthlink.net (Marty Watt)
- 21) [29539] MRX-80 (?) (with apologies to K8IDN)
by Mike Boatright <ko4wx@mindspring.com>
- 22) [29540] Re: Balun
by W6RCecila <w6rca@ibm.net>
- 23) [29541] Mich QRP contest?
by "Kelly Ellison" <kelman@dialnet.net>
- 24) [29542] Re: NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold
your peace...
by Jeff Johns <jeffj@scott.net>
- 25) [29543] Re: Mich QRP contest?
by "Tim Cook" <timcook@erinet.com>
- 26) [29544] A Holiday Trip to Ten-Tec (LONG)
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
- 27) [29545] Fox
by w2xn@juno.com (Fred J Kalt)
- 28) [29546] TS-660
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 29) [29547] Tks from FOX K0EVZ :-)
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 30) [29548] FOX
by Tom Palmer <n1tp@worldnet.att.net>
- 31) [29549] SWL SW+ Trade
by malman@world.std.com (joel malman)
- 32) [29550] Re: Talk Radio...
by Todd <kb4dpf@visi.net>
- 33) [29551] Got a pelt AND the ZL9 - twice!
by Tim Pettibone <tpettibo@NMSU.Edu>
- 34) [29552] Re: Slingshots for launching
by Todd <kb4dpf@visi.net>
- 35) [29553] Norcal 40A VFO revisited
by Jim Knopf <ki7q@yahoo.com>
- 36) [29554] Re: FOX 1/13/99
by we6w@juno.com (Ed Loranger)
- 37) [29555] Re: NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold
your pea...
by RangerSF5@aol.com
- 38) [29556] 5 Watt amp
by Mercxx@aol.com (by way of Jerry Parker <jparker@fix.net>)
- 39) [29557] Re: Mich QRP contest?
by we6w@juno.com (Ed Loranger)
- 40) [29558] Re: NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold
your pea...
by N7YA@aol.com
- 41) [29559] FOX: No Joy

- by K0RWC <rcw@frii.com>
- 42) [29560] N7JI updated web site, ZL9CI, T20FW
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 43) [29561] FB40 amplifier
by "George Heron" <gheron@idt.net>
- 44) [29562] S-meter for the Norcal 40A?
by Herb Watson <puttinggreen@home.com>
- 45) [29563] Re: W4NVK's "SGA" (More Info)
by n3aaz-qrp@juno.com (John R Kirby)
- 46) [29564] Re: Slingshots for launching
by Bruce Muscolino <w6toy@erols.com>
- 47) [29565] Iambic paddle usage - REPORT
by Bruce & Susan Jenks <bnjenks@snet.net>
- 48) [29566] Balun or No Balun
by n3aaz-qrp@juno.com (John R Kirby)
- 49) [29567] Re: Slingshots for launching
by n3aaz-qrp@juno.com (John R Kirby)
- 50) [29568] Re: Project help
by Michael Neverdosky <MichaelN@cycat.com>
- 51) [29569] FS TS50
by Bigbob97@aol.com
- 52) [29570] Re: FOX
by DNT1@daimlerchrysler.com
- 53) [29571] Contest!
by Bruce Rattray <rattray@gpfn.sk.ca>
- 54) [29572] Elmor 101 help/comments
by "Jeff M. Gold" <JGold@tntech.edu>
- 55) [29573] Re: Balun or No Balun
by Michael Maiorana <mikemo@ibm.net>
- 56) [29574] SST RIT?
by "Steve/n0tu" <n0tu@webaccess.net>
- 57) [29575] 30 meters
by "Edward A Kwik jr" <eakwikjr@hti.com>
- 58) [29576] Fox: Got him
by "Edward A Kwik jr" <eakwikjr@hti.com>
- 59) [29577] AR Net tonight!
by Robspark@aol.com
- 60) [29578] Next NW QRP Club Meeting THIS Sat
by "Bill Todd" <bill@willapabay.org>
- 61) [29579] Re: Mich QRP contest?
by Hank Kohl K8DD <k8dd@contesting.com>
- 62) [29580] Re: 30 meters
by Dave Sjolín <sjolin@swbell.net>
- 63) [29581] Re: Balun or No Balun
by Niel Skousen <skousen@srv.net>
- 64) [29582] Ten Tec receiver access via the internet
by jaywa5whn@juno.com
- 65) [29583] RE: MRX-80 (?) (with apologies to K8IDN)

- by Sam Billingsley <SBillingsley@usaninc.com>
- 66) [29584] AL7FS Denver tonight and tomorrow.
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
- 67) [29585] Re: Balun or No Balun
by "James C. Owen, III" <owen@piper.eeel.nist.gov>
- 68) [29586] VXOs - a new(ish) twist
by Laura Denise Halliday <lha@sdr.utias.utoronto.ca>
- 69) [29587] Re: 30 meters
by Jim Kjar WA0CML <jkjar@chisp.net>
- 70) [29588] Re: VXOs - a new(ish) twist
by Chris Trask <ctrask@primenet.com>
- 71) [29589] Re: Norcal 40A VFO revisited
by SKIPNC90@aol.com
- 72) [29590] qrp-1 Y2K - the upside
by Dave Barrett <DBarrett@creo.com>
- 73) [29591] Re: Help in feeding long wire.
by JCoote@aol.com
- 74) [29592] Re: The Importance of Baluns
by "Phillips Richard" <phillips@msoe.edu>
- 75) [29593] Re: Baluns
by "Phillips Richard" <phillips@msoe.edu>
- 76) [29594] Re: Kits for a newcomer
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 77) [29595] OHR400/OHR500 FOX
by N10DL@aol.com
- 78) [29596] manual info Spirit 40?
by tom whalen <wb5qyt@eFortress.com>
- 79) [29597] How to modify the NorCal 40 VFO for Full Coverage
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 80) [29598] Mini Vacation.
by Ed Loranger <we6w@qsl.net>
- 81) [29599] Re: NPRM Reply Comment Deadline Jan. 15th,
by "George F. Allgood" <k4pym@carol.net>
- 82) [29600] Heathkit info
by tom whalen <wb5qyt@eFortress.com>
- 83) [29601] Kit and Hello All !
by "Rich McCabe" <rmccabe@dwx.com>
- 84) [29602] NPRM Comments
by Carl Hyde <carl.s.hyde@lmco.com>
- 85) [29603] Re: Tks from FOX K0EVZ :-)
by "Marshall Emm" <mgemm@mtechnologies.com>
- 86) [29604] Re: Kit and Hello All !
by "Bryan Turner" <turnerw@email.uah.edu>
- 87) [29605] Sv: The Importance of Baluns
by "Lars Harbo" <harbo@post3.tele.dk>
- 88) [29606] JRC parts info request
by "Brad Hernlem" <alihernlem@hotmail.com>
- 89) [29607] Call signs and QTH's

by Roger Hightower <n7kt@earthlink.net>
90) [29608] Fox Alert!!
by talljazz@teleport.com (Dan Presley)
91) [29609] Re: Project help
by "Michael A. Gipe" <mgipe@reliablemeters.com>
92) [29610] FS - SEVERAL ITEMS
by w2bj@juno.com (Barry J Minsky)
93) [29611] Updated Ham Radio/QRP web page
by mwattcpa@earthlink.net (Marty Watt)
94) [29612] Re: Kit and Hello All !
by Bob Hightower <ki7mn@extremezone.com>
95) [29613] Re: The Importance of Baluns
by "Mitch Dickson" <mitch@volstate.net>
96) [29614] SALE:Ten-Tec Scout
by "W. D. (Doc) Lindsey" <70511.3041@compuserve.com>
97) [29615] Re: VXOs - a new(ish) twist
by Chris Trask <ctrask@primenet.com>
98) [29616] Re: Fox Alert!!
by Tom Palmer <n1tp@worldnet.att.net>
99) [29617] Fw: Re: Fox Alert!!
by w2xn@juno.com (Fred J Kalt)

Date: Tue, 12 Jan 1999 18:11:09 -0600
From: kkanalz@optelinc.com
To: radman@best.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [29519] Re: I Need a UTC watch....!!
Message-ID: <862566F8.0001307A.00@hdqsmtp01>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Well, my dual-display watch isn't a Rolex.... it's a Breitling "Aerospace" Navitimer, with dual (simultaneous, if you desire) display, the second time zone is in 24-hour format. It's water-resistant (can't use the word "proof" anymore!) to about 100 meters depth, and manufactured/housed in a solid titanium housing and band (almost indestructible!). Of course, it's a quartz movement and lots of other bells and whistles (alarm, count-down timer, chronometer, etc...)

When I bought mine in 1992, I paid only \$900 for it.... I think they're around \$2700 now, so buy early and avoid the price increases!

Karl K. - W8TIF
McKinney, Texas

"Radman" <radman@best.com> on 01/11/99 05:45:10 PM

Please respond to radman@best.com

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
cc: (bcc: Karl Kanalz/hdq/Optel)
Subject: I Need a UTC watch....!!

Gang,

Has anyone found a "UTC Wrist Watch" as follows:
inexpensive, LCD, simultaneous dual-display (UTC & Local),
water proof-like, Casio, Timex, etc.... ? Cud u pass along
the make, model & price? I need one :-)

Thanks in advance,

72 - Conrad - NN6CW ... *not* looking for a Rolex or Y2K
compliant ;)

Date: Tue, 12 Jan 1999 18:11:50 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: Bigbob97@aol.com, QRP-L Distribute <qrp-l@Lehigh.EDU>
Subject: [29520] Re: prohibited contacts?
Message-ID: <369BE4C6.654E88B4@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bob,

We can communicate with any licensed amateur in the world. The only limitations are for third party traffic. There is a list of countries in which we do not have any third party agreements with. This means that another person may not communicate with these countries using your gear when you are the control operator, even if you are the one passing the information. The same holds going the other direction. Third party traffic being defined as: "a message from the control operator (first party) of an amateur station to another amateur station control operator (second party) on behalf of another person (third party)".

73,
Steve Yates
AA5TB
Fort Worth
aa5tb@swbell.net
<http://home.swbell.net/aa5tb/>

Date: Tue, 12 Jan 1999 20:27:02 -0500
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: Bigbob97@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29521] Re: prohibited contacts?
Message-ID: <369BF664.B47B2CCA@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> Does anyone know if there are any countries which we, as US Amateurs, are
> currently prohibited from communicating with - over the airwaves? Thanks,
>

Bakersfield

Date: Tue, 12 Jan 1999 16:28:24 -0800 (PST)
From: Jim Knopf <ki7q@yahoo.com>

To: kkanalz@optelinc.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29522] Re: I Need a UTC watch....!!
Message-ID: <19990113002824.23102.rocketmail@send1e.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Yes, but it is Y2K compliant? (sorry, I couldn't resist).

---kkanalz@optelinc.com wrote:

>
>
>
> Well, my dual-display watch isn't a Rolex.... it's a Breitling
"Aerospace"
> Navitimer, with dual (simultaneous, if you desire) display, the
second time
> zone is in 24-hour format. It's water-resistant (can't use the word
> "proof"
> anymore!) to about 100 meters depth, and manufactured/housed in a
> solid titanium housing and band (almost indestructible!). Of
course, it's
> a quartz movement and lots of other bells and whistles (alarm,
count-down
> timer, chronometer, etc...)
>
> When I bought mine in 1992, I paid only \$900 for it.... I think
they're
> around
> \$2700 now, so buy early and avoid the price increases!
>
> Karl K. - W8TIF
> McKinney, Texas
>
>
>
>
>
> "Radman" <radman@best.com> on 01/11/99 05:45:10 PM
>
> Please respond to radman@best.com
>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> cc: (bcc: Karl Kanalz/hdq/Optel)
>
> Subject: I Need a UTC watch....!!

>
>
>
>
> Gang,
>
> Has anyone found a "UTC Wrist Watch" as follows:
> inexpensive, LCD, simultaneous dual-display (UTC & Local),
> water proof-like, Casio, Timex, etc.... ? Cud u pass along
> the make, model & price? I need one :-)
>
> Thanks in advance,
>
> 72 - Conrad - NN6CW ... *not* looking for a Rolex or Y2K
> compliant ;)
>
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>

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Jim, KI7Q FISTS#5802 QRP-L#1689
<http://www.halcyon.com/knopf/jim>

DO YOU YAHOO!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Tue, 12 Jan 1999 02:10:02 +0100
From: Anita och Lars Olsson <anita.lars.olsson@telia.com>
To: qrp-l@Lehigh.edu
Subject: [29523] Re: Iambic paddle usage
Message-ID: <369AA0E9.35B8@telia.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello CW friends,

I agree Ed, N4XY that if there is a standard, dits are on the left hand side of the paddle, but I think its better to say that the dits are on the thumb side, as we also have lefthanded hams. I think this "standard" is coming from the time when the Vibroplex (Bugs) became popular. I have a feeling they all had dits on the left side, or....?

As an owner of CMOS Super Keyers this is not a problem (as Zack, W1VT) write in his message.

73 to all from Lars / SM3AVQ

Owner of CMOS Superkeyer III, Mercury paddle #287 and some Ten-Tec transceivers, what more can I ask for, hi.

Date: Tue, 12 Jan 1999 18:52:31 -0700

From: "Alyn Backe" <ve6bpr@cnnnet.com>

To: "QRP-L" <qrp-l@lehigh.edu>

Subject: [29524] Any Norcal QRPP arrived in Canada?

Message-ID: <001701be3e97\$6247a980\$8306e5cf@laptop>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hello QRPers.

I'm wondering if any other Canadian members of Norcal have received their fall issues of QRPP as of yet? I haven't received mine, and was wondering if there was a delay.

I've sent private e-mails to Doug and Jim, but I can't get any replies back from them. I don't know if my e-mail is getting lost in the shuffle, or maybe they are too busy kitting the Norcal 20's to answer my e-mail.

Just wondering if I got left off the mailing list, or if there is some delay.

72, AL, VE6BPR.....sk

ve6bpr@cnnnet.com

QRP-L #1144

Norcal #2315

Zombie #158

Date: Wed, 13 Jan 1999 01:07:15 -0000
From: "Mike Rioux" <mike@rioux.org>
To: <w7ls@blarg.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <aa1m@aol.com>
Subject: [29525] RE: TS-50 vs Alinco 70x
Message-ID: <00a501be3e91\$0f281e20\$0a32a8c0@seabat>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Group, I can't speak to the Kenwood; but I've used the Alinco on two minor DxPedititions to the Caribbean. This trip (March 1-8, 1999 - in VP2E), I'm bringing an IC-706MkII. The Alinco just didn't hack it for three reasons - adjacent station interference, BBC broadcast interference, and it died. Rigs that do not work far from repair facilities do not get my vote. Also, the Alinco does not have computer interface capabilities - real important when you keep an electronic log and are not carefull about manual log entries :(I'll let the group know how well the 706 does. (And yes, I now have a Dunestar to take with me :)

73, Mike

"The history of liberty is a history of the limitation of governmental power, not the increase of it." -- Woodrow Wilson
Mike Rioux, W1USN
mike@rioux.org

Date: Tue, 12 Jan 1999 19:57:58 -0600
From: "Randy Moore" <wr.moore@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29526] Great Day on QRP-L
Message-ID: <000101be3e98\$2520a4c0\$d48c4a0c@wrmoorerpc>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just ran through my 80+ QRP-L messages today, and (without looking back) I believe that every one was related to something technical, some operating procedure or activity, or thanks to someone for help. GREAT DAY GUYS!!

While I'm at it, I operated the Spartan Sprint last week for the first time in months. I had been avoiding it because I always got classed in the "tubby class" because of my heavy stuff (mostly big paddle, big battery, and big antenna tuner). But I've gotten my rig weight down to a "fighting" level, using an OHR Explorer II, ZM-2, Te Ne Key Micro Key (I love this gem), and a 2Ah battery. No record weight, but respectable. Anyway, I really enjoyed the sprint and invite others to participate on the first Monday of each month (see the Adventure Radio Society page at <http://www.natworld.com/ars/>). It has a different feel from the Fox hunts (not better, just different), and you get more "hits" of gratification (unless you're the Fox) because you get to make lots of contacts.

Anyway, the list feels very healthy again. I'm very glad!!

72,
Randy, KS4L

Date: Tue, 12 Jan 1999 18:12:53 -0800
From: "Radman" <radman@best.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [29527] UTC watch summary... (soon)
Message-ID: <199901130208.SAA13269@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey Gang,

You can't imagine the amount of email I got from the UTC wrist watch query... :-) !!
Please keep sending me email telling me about YOUR choice/favorite UTC/Local wrist watch.

Thanks for all the suggestions! There are so many different models, it will take me a couple of hours to compile a summary to QRP-L. Costs range from zero to \$2,700.00. Fascinating reading :-)

Keep on tickin',

72 - Conrad Weiss - NN6CW

Date: Tue, 12 Jan 1999 18:06:19 -0800 (PST)
From: Jim Knopf <ki7q@yahoo.com>
To: QRP-L Maillist <qrp-l@Lehigh.EDU>
Subject: [29528] A NORCAL number of my own
Message-ID: <19990113020619.25453.rocketmail@send1e.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

How do you figure out what your NORCAL number is? I notice that many of you post one in your signature.

When I signed up last august, I received no number.

Help, I'd like to display one with pride.

==

Jim, KI7Q FISTS#5802 QRP-L#1689
<http://www.halcyon.com/knopf/jim>

DO YOU YAHOO!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Tue, 12 Jan 1999 19:12:07 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@lehigh.edu
Subject: [29529] NVIS followup
Message-ID: <19990112.191207.-4163353.0.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

Put a small knife switch in the center of the reflector for this antenna, and you can hear the difference in noise, DX, and radiation angle when you open and close it. I did this when I lived in Florida some years ago, and the effect was pretty striking. My 40m dipole was about 25-28 feet high in two palm trees, and I installed the reflector directly below it at about eye level. This made it easy to reach the switch, but you might experiment with the heights of both driven antenna and reflector and see the changes in feedpoint resistance and behavior. Today's antenna analyzers such as the MFJ-259B would make testing and measurements a lot easier to do.

I made up this antenna on a whim one day, not even knowing about NVIS theory. I was trying to reduce the strong interference from European SW stations, and improve local communication with other Fla stations at the same time. The performance was beyond my expectations, and the change in antenna behavior was most impressive when the switch is closed or opened. Only later did I learn about NVIS, and what I had created by just stringing up a reflector beneath my existing dipole.

Oh yes, I did use a balun made by Savoy Electronics of West Palm Beach, I think. It made a nice center insulator, was sealed and filled with helium to keep the Fla rain out, and it helped to keep the static drained away from all the Fla thunderstorms. Other than that, it was probably not necessary! ;-) ;-)

I think I still have it in the closet here somewhere..... =*8^)

So give this idea a try if you haven't already. It is very easy to make, and experimentation is easy as well. I'm very glad to see this thread appear again on this list, as it has in the past from time-to-time. NVIS really does work! :-)

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 12 Jan 1999 21:27:52 +0000
From: Todd <kb4dpf@visi.net>
To: we6w@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29530] Re: WSN-40 Saturday Net QNI's

Message-ID: <369BBE57.37D5F31E@visi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ed Loranger wrote:

>
> Hope we make it to 20 next time. Phew!
>
>
> Hope you can join in on this friendly and fun
> net.
>
> WNS 40 Net. 7040 KHz CW, always 9:00 AM Pacific time.

Well, I could try to make it. I noticed a distinct lack of us east coasters... maybe I'll catch a lucky propagation break :) (listen REAL hard!)

--

Todd McCoy: QRP-L #1823
KB4DPF - Gloucester Co., Virginia
37.2942 N, 76.4158 W | Grid: FM17
<http://members.visi.net/~kb4dpf/Radio.html>

Date: Tue, 12 Jan 1999 18:56:48 -0800
From: "Radman" <radman@best.com>
To: <70511.3041@compuserve.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29531] Re: TS-50 vs Alinco 70x
Message-ID: <199901130252.SAA16718@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Doc,

I can only comment on the Kenwood TS-50 -- I've never operated the Alinco. I bought one of the first TS-50s "off the boat" -- along with the AT-50 ATU -- Love at first sight !! I bought it for serious mobile/portable SSB work

and as a travel rig. I'd rate it as a great SSB rig and a decent CW rig with the CW filter. I've never hesitated to tote/fly/drive/ship/carry the TS-50 anywhere and it's never let me down. I'd pack it tonite :-) In terms of engineering toughness, I'd rate it equal to my Icom-735. Neither of those rigs have required a trip back to the factory. My only advice would be to check with guys who've "dragged" the two rigs to odd corners of the earth and see what they have to say. Naturally, it's a very battery hungry rig... typical of that type of rig :-) I still own mine :-)

GL es let us know the winner,

72 - Conrad - NN6CW

Anyone out there who has compared the Kenwood TS-50 with the Alinco 70x series of transceivers? In particular, how do the receivers and the QSK compare? Which would *you* buy for a compact rig? Any information you can share will be appreciated. Thanks in advance.

72/73,

--Doc Lindsey/K0EVZ

Date: Tue, 12 Jan 1999 21:12:49 -0600
From: mike1@urbancom.net (Dinelli, Michael)
To: <qrp-1@Lehigh.EDU>
Subject: [29532] NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold your peace...
Message-ID: <000d01be3ea2\$99cb1580\$47af51d1@mike1.urbancom.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The FCC web site just added another 50 or so reply comments in favor of the "No-code International" proposal. If you would like to file your own reply comments, the deadline is January 15. Reply comments are to rebut or show support for comments that were made during the regular comment period.

You can do this by going to the FCC web site at:
<http://www.fcc.gov/e-file/ecfs.html> You simply insert your comments into the form and add "98-143" in box #1 titled "Proceeding." This is your last chance to have any impact on this NPRM.

Alan Wormser, N5LF filed comments with the FCC that outline a reasonable compromise. The same basic comments were also filed by me, Fred Adsit, NY2V, Tim Billingsley, KD5AKC and others. You can see these comments at N5LF's web site at <http://www.qsl.net/n5lf/> If you agree with the comments you can send the FCC a note simply saying that you support the comments of Alan Wormser, Michael Dinelli, Fred Adsit and Tim Billingsley. I am not necessarily trying to rally support for Alan's proposal. I am trying to give those of you who haven't already sent in your comments a kick in the butt before it's too late. Even if you think your comments won't matter, what can it hurt?

Please invest a little time to shape the future of the Amateur Radio Service that we all love. Complaining afterwards about No-code International, Kenwood Communications, National Conference of VEC's, CQ Magazine, the ARRL and Fred Maia will serve no purpose. Your reply comments to the FCC rebutting them will. Thank you.

73 de Mike, N9BOR
<http://www.qsl.net/n9bor>

di dah dit - The only roger beep you will ever need.

Date: Tue, 12 Jan 1999 19:22:14 -0800
From: "Radman" <radman@best.com>
To: <alk0frp@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29533] Re: Surface mount Electroletics
Message-ID: <199901130318.TAA26972@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Al,

Halted Electronics, URL: <http://www.halted.com/> may be able to help you. Go to "products," then go to "surface mount devices." They list SMD 47 uF electrolytics @ 16VDC. Price: 10 for \$4.50. Phone: (408) 732-1573. (They often have other "stuff" that's not on their web page, as well

!)

GL with the project,

72 - Conrad - NN6CW

I am looking for 100 uf 15v or higher electroletic caps.
Surface mount.
I have a couple of 10uf that may work.

A1 K0FRP

Date: Tue, 12 Jan 1999 22:25:32 -0500
From: w2bj@juno.com (Barry J Minsky)
To: anita.lars.olsson@telia.com
Cc: qrp-1@Lehigh.EDU
Subject: [29534] Re: Iambic paddle usage
Message-ID: <19990112.223729.-164605.1.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I also use my paddles as I do a bug, dits on the left and dahs on the right. I also have a CMOS III and Mercury paddle #281. I still enjoy using a bug and use one about 90% of the time. Left handed bugs were produced which made dits on the right. I would suggest that right handed hams use the standard configuration. That would make it possible to switch to a standard bug and operate a paddle that cannot be switched.

On Tue, 12 Jan 1999 02:10:02 +0100 Anita och Lars Olsson
<anita.lars.olsson@telia.com> writes:
>Hello CW friends,
>I agree Ed, N4XY that if there is a standard, dits are on the left
>hand
>side of the paddle, but I think its better to say that the dits are
>on
>the thumb side, as we also have lefthanded hams. I think this
>"standard"
>is coming from the time when the Vibroplex (Bugs) became popular. I
>have
>a feeling they all had dits on the left side, or....?
>As an owner of CMOS Super Keyers this is not a problem (as Zack, W1VT
>)

>write in his message.
>73 to all from Lars / SM3AVQ
>Owner of CMOS Superkeyer III, Mercury paddle #287 and some Ten-Tec
>transceivers, what more can I ask for, hi.
>

72/73,
Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century
Club #569, FISTS CW Club of Coastal Georgia, Knightlites, Adventure
Radio Society #359,
Six Club #151, QCWA #29298, OOTC #3723
Amateur Radio Missionary Service

Date: Tue, 12 Jan 1999 20:40:44 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Alyn Backe <ve6bpr@cnnet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>, Paul Harden
<pharden@zia.aoc.NRAO.EDU>
Subject: [29535] Re: Any Norcal QRPP arrived in Canada?
Message-ID: <Pine.SOL.3.91.990112195657.15975A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 12 Jan 1999, Alyn Backe wrote:

> I'm wondering if any other Canadian members of Norcal have received their
> fall issues of QRPP as of yet? I haven't received mine, and was wondering if
> there was a delay.

There have been several logistic problems that have caused delays in some DX QRPP mailings. Part of it was due to management changes in the local post office that generated disputes as to which countries do NOT allow foreign airmail to be sent in plastic bags, and these were repackaged in paper envelopes. This has never been a problem in the past, nor did it effect Canada (although those were repackaged as well). Part of the problem was my own, in that shortly after the QRPP's were mailed, the print shop was closed down for the two weeks over the holidays and the Post Office was unable to notify anybody. All of that has been corrected. Then to add insult to injury, a sheet of mailing labels was found last week that was not processed. Those were primarily Canada (3-4 to England) and have since been mailed. I would expect those to arrive in the next few days.

> I've sent private e-mails to Doug and Jim, but I can't get any replies back
> from them.

I had promised Doug I would explain this last week before I left thursday morning for Denver, but forgot. As a result, even he did not know the status before I went "off line" until today, leaving him and Jim in an awkward position. Therefore, I make this public apology to 20 some VE's and a few G's whose QRPP's were delayed (apparently without explanation) and to Doug and Jim.

> maybe they are too busy kitting the Norcal 20's to answer my e-mail.

Well yes ... but that's another story, which has nothing to do with the postal problems 800 miles to their east.

While I was in Denver attending the CQC meeting, Sandra and Olivia whumped out a bunch of the Elmer 101 books in the spiral bindings. They will be ready soon ... but I can not in good conscience release those until I know the NorCal committments have been fulfilled.

72, Paul NA5N

Only hoping 1999 will bring better luck than '98

Date: Tue, 12 Jan 1999 22:43:27 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: "qrp-canada@lists.gpfn.sk.ca" <qrp-canada@lists.gpfn.sk.ca>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [29536] No Fox heard...DRAT
Message-ID: <369C165E.66234133@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Never heard or seen hide nor hair of K0EVZ tonight...Heard a number of the hounds out there...Heard KU7Y,heard the tuner upper at 589.And I heard KL7IFP calling CQ...But no fox.Oh well maybe better luck on Thursday night...

Temps supposed to drop down to -36dC tonite,this is before windchill....So gonna retire and keep warm for the night...Good luck Northern Lights....

Fred VE3FAL

Date: Tue, 12 Jan 1999 21:48:19 -0600
From: "Mullins family" <mmullins@mastnet.net>
To: "QRP-L post message" <qrp-l@Lehigh.EDU>
Subject: [29537] Noise source: VCR's
Message-ID: <001401be3ea7\$f2727340\$66d542ce@micron>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This may be old news to some, but I just located an intermittent noise source in my house: a Magnavox VCR while it's playing a tape. It sprays noise all over the 40 meter band with peaks every ~16 KHz. Any thoughts from the experts on how to fix this? I'm thinking of squeezing a tube of Liquid Nails into the tape slot with my caulking gun. My guess is that a good grade of silicone caulk would also work.
Mike Mullins KD5CMN in Lake Jackson TX

Date: Wed, 13 Jan 1999 03:51:28 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: qrp-l@lehigh.edu
Subject: [29538] Casio Clock with temp, day/date, 24 hour readout for trade
Message-ID: <369d15d6.9340368@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

I have a Casio DQ-750 (the one I've been raving over) new in the =
packaging
that I'd like to swap for a small keyer to put with my Kenwood TS-50 when
traveling. You can see the clock at <http://www.casio.com/timepieces/> and
follow the clock links.

--
72 es 73 de Marty, KM7W

-----=

Memphis, Tennessee =
<http://home.earthlink.net/~mwattcpa>
VE -- NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid =
EM55ce
CODE WARRIOR(c) #29 -- Mobile CW -- "Taking Code on the Road with a =
Vengeance"

Date: Tue, 12 Jan 1999 22:59:38 -0500
From: Mike Boatright <ko4wx@mindspring.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [29539] MRX-80 (?) (with apologies to K8IDN)
Message-ID: <369C1A2A.E1B@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Isn't it amazing how a simple question to the "L" can take on a life of it's own? Man, I've learned more about design in the past 3 days than in several of the past years combined! "Mod"ing the MRX-40 for 80M has become a most interesting project and I am, indeed, making progress. My apologies for borrowing the name "MRX-80" for lack of anything better.

Key activities so far:

1) Modified the audio circuit to use the old tried and true LM386, as LM380-8's are scarce in these parts (I'm into instant gratification...ain't TechAmerica great?!?). Added a 10uF capacitor across pin's 1 and 8 to increase the gain to 200 and switched from an earphone to Walkman-style headphones (the LM386 was seriously overdriving the crystal earphone).

2) Scaled the tuned-input circuit from 40M to 80M per prior appends ($L=10\mu\text{H}$, $C1=220\text{pF}$, $C2=910\text{pF}$). Encountered very serious BCI from 39meters. Replaced the 10uF molded RF choke (from the junk box) with a wound coil at 10uH (23 turns 30ga. enamelled wire close wound on FT-37-63 ferrite toroid, which is 10.4uH, but is actually closer to the L needed for resonance). With better Q, BCI significantly reduced, but still clobbers the CW signals on 80M making them only about 1 or 2 dB above the noise. At the suggestion of Sam, AE4GX, removed the DC blocking capacitor, added a 3-turn primary on the toroid, one end connected to ground and one end to the arm of R4, and removed R1. This puts C1 & C2 in series ($C_{\text{total}} = 177\text{pF}$) and a parallel resonant (with L1) balanced input. Much improvement, and could copy several CW signals now quite nicely (still BCI from Radio Canada, RCI).

3) Have dinked around with the VX0 circuit, but so far am not happy. So far the best combination is $L2=150\mu\text{H}$ with 2 1N4004 diodes in parallel and 2 XTALs in parallel. So far, I'm getting a 2-3KHz swing, but it's about 2KHz too low to work with the NOGA-80 transmitter. At one point, I had the MV104 working well, but messed something up, and have to retry that effort.

4) I'm breadboarding the entire circuit. Initially I had the IC's in DIP sockets with VERY long legs (only ones available at TechAm!), long leads on all components, etc. Was getting very serious feedback/self/runaway-oscillation. Removed the DIP sockets, shortened all the component leads, but still had some feedback. Added a .01uF capacitor in parallel to C9 (the 220uF between the +6V and ground), and all the feedback and runaway oscillation went away.

Many thanks to all of the responses, both in the L and off-line, especially, Sam Billingsley's (AE4GX), help.

72 de Mike, K04WX

--

Mike Boatright, K04WX
Amateur Radio Emergency Service,
District Emergency Coordinator to Georgia Emergency Management Agency

Date: Tue, 12 Jan 1999 20:58:17 -0700
From: W6RCecila <w6rca@ibm.net>
To: qrp-l@Lehigh.edu
Subject: [29540] Re: Balun
Message-ID: <369C19D8.1F4D@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>Date: Tue, 12 Jan 1999 16:56:55 -0600 (CST)
>From: ac5ez@webtv.net (Larry B)
>Subject: [29511] Balun
>

>I am not convinced that a dipole had, by its nature, unequal currents in
>each leg. I remember an article where the current was measured and for
>all practical purposes was about equal, with no balun. K1zw

Whether current flows down the outside braid of the coax or not obeys Ohm's law. If the antenna feedpoint impedance is low compared to the impedance seen looking back down the braid, the current will tend to flow into the antenna. If the impedance seen looking back down the braid is low compared to the antenna impedance, the current will tend to flow back down the braid. No rocket science there.

What is not widely known is that the length of the transmission line affects what impedance is seen. The braid is almost always grounded at the transmitter/tuner. If the transmission line is a multiple of

electrical half-wavelengths long, a low impedance will be seen looking down the braid. If it is an odd multiple of electrical quarter-wavelengths long, a high impedance will be seen looking down the braid. The VF of the outside braid is NOT the VF of the coax. The VF of the outside braid is more like the VF of ordinary insulated wire so 455/F is a close approximation to an electrical half-wavelength on the outside braid.

If one doesn't use a balun or choke on a coax-fed dipole, one should make the coax an odd number of electrical wavelengths long. Some people stumble upon this length by accident and report never having RF-in-the-shack problems.

--

73, Cecil, W6RCA <http://people.delphi.com/CecilMoore>

Date: Tue, 12 Jan 1999 22:07:44 -0600
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@Lehigh.EDU>
Subject: [29541] Mich QRP contest?
Message-ID: <199901130407.WAA06156@dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all...

I thought that there was a QRP contest last weekend and I made some noise and managed to make a hand full of contacts but there was not much activity. Did I get the wrong info? Wrong weekend? Were the bands just bad? Did I miss something? Usually there are follow up posts on activity and I don't recall seeing any. Am I confused or what?

Thanks,

Kelly Ellison - WB0WQS - Aurora, Mo

Date: Tue, 12 Jan 1999 22:15:36 -0600
From: Jeff Johns <jeffj@scott.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29542] Re: NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold your peace...
Message-ID: <199901130415.WAA29199x@scott.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

On Tue, 12 Jan 1999 21:12:49 -0600, mike1@urbancom.net (Dinelli, Michael) wrote:

> The FCC web site just added another 50 or so reply comments in favor of the
> "No-code International" proposal. If you would like to file your own reply
> comments, the deadline is January 15. Reply comments are to rebut or show
> support for comments that were made during the regular comment period.

I would never shame anyone for holding a no-code license, I did for two years and there's quite a bit one can do with a no-code license and lots of room for experimentation. I have always one that realized a need for CW, even when holding a no-code license. I have been on both sides of the fence and can see both points of view. I just hate to see the hobby which is a big part of my life lower it's standards, just as many other standards seem to have been lowered here in America. We have people doing jobs, which they are not qualified to do, the education system is becoming a 'feel good' type of education system, even our morals seems to have been degraded.

I know we could debate the code vs. no-code proposal forever, but I haven't vented on the situation and I felt the need to do so. The basic fact, at least for me was that I enjoy the hobby and wanted to be able to enjoy eben more aspects of it, so I spent two or three weeks and taught myself CW or at least enough CW to pass the 5wpm test. I am already practicing for my 13wpm and will sharpen my skills on the air. It wasn't hard to pass the test, I now have more priveleges and hopefully I'll soon have a nifty litle QRP rig.

Whew.... I feel better now. Thanks for letting me use a bit of bandwidth. I do encourage everyone to let the FCC know your feelings, regardless of your views. It's your right and privelege as an American to let the goverment know your point of view.

73 Jeff W4JEF

```
*----- Jeff Johns W4JEF - AMSAT# 32615 -----*  
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |  
| Satellite: Mir R0MIR-1, A0-27 | Jefferson County Sheriff's Dept|  
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |  
*-----*
```

Date: Tue, 12 Jan 1999 23:16:17 -0500
From: "Tim Cook" <timcook@erinet.com>
To: <kelman@dialnet.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29543] Re: Mich QRP contest?
Message-ID: <02cd01be3eab\$781c4180\$19765acf@timcook.erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I experienced the same results Kelly, I heard a handful of stations, but once the NA Sprint was over, it was very quiet. Normally the MI contest has a lot of activity. I'm not sure either what went on. With the bad weather here in the midwest, I was busy doing other things and didn't get a good feel for the band conditions..... maybe next time... :(
Tim

NZ8J

-----Original Message-----

From: Kelly Ellison <kelman@dialnet.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Tuesday, January 12, 1999 11:18 PM
Subject: Mich QRP contest?

>Hi all...

>

>I thought that there was a QRP contest last weekend and I made some noise
>and managed to make a hand full of contacts but there was not much
>activity. Did I get the wrong info? Wrong weekend? Were the bands just
>bad? Did I miss something? Usually there are follow up posts on activity
>and I don't recall seeing any. Am I confused or what?

>

>Thanks,

>

>Kelly Ellison - WB0WQS - Aurora, Mo

>

>

Date: Wed, 13 Jan 1999 04:18:20 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>

To: qrp-1@lehigh.edu
Subject: [29544] A Holiday Trip to Ten-Tec (LONG)
Message-ID: <3.0.16.19990113041738.24f7a278@som-uky.campuscw.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Questions on QRP-L regarding the Ten-Tec "T-Kit" radios have seduced me to write up a report on my holiday field trip to Gattlinburg/ Pigeon Forge, and Sevierville, TN, the home of Ten-Tec. Those who are well familiar with Ten-Tec may find this a lil ho-hum, so this little ditty is for the rest of you.

A couple weeks before Christmas, Phyllis and I, in order to combat the "Xmas blahs", loaded up the XJ and made our way down to the Smokies for a few days of r&r, book and bargain hunting, and "just plain foolish-ness" (ala Frank Zappa).

In my opinion, there cannot be any prettier place to be during the holidays than the Great Smoky Mountains. There was a light snow on - just enough to make things look nice - down in Gattlinburg. The town was all lit up for the season, the crowds were small, and most important, the outlet shops and discount book centers were all eager to empty the years' inventory. Picked up several Linux and Spice books, and a nice Unix sys-admin book for next to nothing (currently trying to build Spice3f4 on my Linux box, but I digress).

On Friday, we drove a few miles up the road to Sevierville, out the Dolly Parton Parkway to Ten-Tec. It's a rather modest building - I guess they've been there as long as I can remember - 40,000 sq. ft., the familiar double T logo on the front, along with a tower and tri-bander and dipoles wired up to the rigs in the radio room.

Walking in, I was greeted by a couple of employees whose names and callsigns I forgot (sorry), but I believe the gentleman who manned the computer against a wall full of qsls was Scott Robbins, W4PA... I'm not sure though. He pointed out the showcases, the used gear, as well as the T-T museum (yes, that's right) and the radio room. Suffice it to say that everyone that I ran into had a callsign, so it felt very comfortable to fire questions at them. It was a very cordial atmosphere.

A lot of you have probably seen Ten-Tec's qro rigs at hamfests. Omni's, Delta's, Century 21's (my first real rig), Argosy's, etc. What you may not realize is that the molding, sheet metal work, pc board design and manufacturing, even transformer work is done in-house. There is a tool and die shop on site as well. Ten-Tec has been manufacturing enclosures for industry for a long time... but I digress again.

The first thing that caught my eye, and my main reason for the visit, was the showcase of T-Kit products. T-Kit is actually a division of Ten-Tec devoted to kit building. There was the 1320/1330/1340, the 1253 and 1054 regenerative receivers, the 1254 synthesized receiver,

the wattmeter, ground counterpoise, transverters, etc. All nice looking stuff.

My main interest of course was the 13xx QRP rigs, so I checked out the specs on the 1320, the 20m version. I guess my interest was sort of obvious, because someone came up to me and said "You know you're welcome to operate one in the radio room. Why don't you fire one up?". You don't have to twist my arm. I went into the radio shack, and there was just about every Ten-Tec gadget sitting there, ready to go. We found a DC line for the 1320, and the coax to the antenna. The audio filled the room. It has a nice receiver, easy to tune (about 40kc). Selectivity seems to sound like about 900 hz or so. The rig is a lil on the heavy side (2.25lbs.), but like someone else commented, you *could* very well drive your tent stakes with it.

A straight key was already attached, but I noticed a familiar paddle wired to the Omni-VI+ across the room. Now I used to have a matching model #670 keyer for my Century-21 - a single paddle deal with a built in keyer. Low and behold, there was a #607 paddle, identical to my 670, sans the internal keyer. Lots of room for a TiCK circuit in there, and comes in basic black just like the 13xx rigs (hint). It's not a cadillac, but is a nice paddle for the price. I could even envision it as an enclosure for a 38S or something.

QSK on the 1320 was just what I expected from it - smooth... real smooth. How do they do that? Well, these guys have ESP or something, because someone again approached me and said, "Let me see if I can dig up the assy manual for you to look through". I spent the next several minutes reading over the book.

After a qso on the 1320, I naturally gravitated over to the Omni-VI for one of those "I can dream, can't I" knob turning sessions. *Very* nice radio, DSP, all the good stuff, KW amplifier attached, and - oops, sorry. It does QRP, however. A couple empty cq's on 40m... no luck.

After collecting up all the brochures and spec sheets, as well as looking over the T-Kit hardware packs and enclosures, I walked out the door knowing full well that I would be on the phone after Christmas placing my order for a 13xx and 607 paddle.

Glancing up at the Smokies, I theorized that one could feasibly walk in, buy a QRP kit, put it together in the hotel room, and head straight up Alum Cave trail to the Bracken cabin site at Grassy Patch for a little portable QRP.

But I forgot to pack the sorderin' arn.

tu de Rich

Usual Internet disclaimers.

Rich Dailey, KA8OKH <ka8okh@som-uky.campuscw.net>
The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Tue, 12 Jan 1999 22:59:57 -0500
From: w2xn@juno.com (Fred J Kalt)
To: qrp-l@lehigh.edu
Subject: [29545] Fox
Message-ID: <19990112.225958.-624239.3.w2xn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Can't hear anything but the hounds yelping down here in Lakeland, FL, (nr
. Tampa). Even they are weak sounding.

Temp going down to about 55 tonite, brrrrrrrrrrrr (for FL that is).

Oh well, there is always Thurs. nite to try again.

fred w2xn
Lakeland, FL

Date: Tue, 12 Jan 1999 21:42:09 -0700
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [29546] TS-660
Message-ID: <5103124387F8D11199DD00A0C925E4B9062950@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Anybody had experience, good or bad, with the TS-660? It's 10 watts, SSB,
FM, CW, AM, 15-12-10-6 meters. Any idea about the going price of such a
thing?

Date: Tue, 12 Jan 1999 23:42:28 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: //QRP-L Discussion Group <QRP-L@Lehigh.edu>, "+Doc W.D. Lindsey/K0EVZ"
<70511.3041@compuserve.com>
Subject: [29547] Tks from FOX K0EVZ :-)

Message-ID: <199901122346_MC2-6659-BB86@compuserve.com>

MIME-Version: 1.0

Content-Transfer-Encoding: 7bit

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

Content-Transfer-Encoding: 7bit

Gang:

Wow!--what a blast tonight. Despite rough band conditions midway on....despite lots of heavy-duty QRN....despite late QSB...despite what seemed like deliberate QRM (I could be wrong here, though)--it was one FB evening here tonight. Thanks for dropping by.

I want to thank all of you. You truly made me proud to be a ham and especially a QRPer. You are truly above-average operators, and it showed clearly tonight. You exhibited true professionalism and courtesy when I had to ask for repeats. And when I was doing my best to finish a QSO....you waited patiently. THANKS, EVERYONE. Wow <VVBG>!

The hunt began well with lots of quick (for me) QSO's. Hoped to set a personal record as a FOX. But it was not to be as condx deteriorated rapidly during the second hour. Actually spent most of the last 20 minutes calling CQ FOX with maybe 4-5 takers. Total pelts = 65 if they all hold up.

Will post the log ASAP, but it will have to wait until sometime tomorrow. Injured my one good arm when I fell hard just 15 minutes before the hunt began. Really hampered the operation. Very sorry my fist was so often erratic. Maybe I should use a hand key instead. "QLF" took on a whole new meaning for me tonight. Oh well.

Again, thanks, everyone.

72/73,

--Doc Lindsey/K0EVZ

DSBF

P.O. Box 7187

Bismarck, ND 58507

E-Mail 70511.3041@compuserve.com

Date: Tue, 12 Jan 1999 23:49:46 -0500

From: Tom Palmer <n1tp@worldnet.att.net>

To: QRP-L <qrp-l@Lehigh.EDU>

Subject: [29548] FOX

Message-ID: <369C25EA.801354FC@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Here in southwest Florida, Doc was readable (with effort) from 0200 until about 0245 and after that the band went South far and fast. Were band conditions that bad in you neck of the woods? Tonight, at least, we QRPers were getting no respect whatever with stations calling CQ CQ all around and about Doc's transmit frequency (7.044.60). Heard many hounds get their pelt until about 0245, especially from Missouri, Oklahoma, and, of course, those pesky Texans, who were LOUD while it lasted. Clearly heard N1FN get his pelt, as always. I'd be interested to hear how thing went in your shack. 72, Tom, N1TP, Naples. P.S. ZL9CI is now (0448Z) very strong on 14.024, listening up 5.

Date: Wed, 13 Jan 1999 00:02:59 -0500 (EST)
From: malman@world.std.com (joel malman)
To: qrp-l@Lehigh.EDU
Cc: k1qm@world.std.com
Subject: [29549] SWL SW+ Trade
Message-ID: <199901130502.AA29179@world.std.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Is there anyone interested in a trade?

My SWL SW-30+ (30 meters) for your SWL SW-40+ (40 meters).

My SW-30+ is installed in a SWL enclosure, works fine, no mods and has worked lots of DX. Please contact me directly: k1qm@world.std.com

--
/joel K1QM (Ex-wa1qvm) Concord, Mass.
QRP-L 337, QRP-ARCI 9305, NorCal 1884

Date: Wed, 13 Jan 1999 00:20:06 +0000
From: Todd <kb4dpf@visi.net>
To: radman@best.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29550] Re: Talk Radio...
Message-ID: <369BE6B5.2B238B58@visi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Radman wrote:

> Gang,
>
> 10M & 15M were plenty hot today. Enjoyed a lot of nice Qs
> with folks from all over the place. If you can
> talk/send/eat/chew/log at the same time... you might want
> to fire-up that Scout/Icom/Yaesu/Kenwood mobile on your
> lunch hour :-)

I'd love to! I have a Uniden HR2600 that I'd love to use,
but it has a problem. The radio will not pass audio on
transmit. I have dis-assembled and reassembled the mic
several times, it will work for a short while, then as soon
as I am ready to make a contact, bam! when I key the rig
(don't have a mobile keyer for it, so I am talking SSB here)
nada... anyone have suggestions?

--
Todd McCoy: QRP-L #1823
KB4DPF - Gloucester Co., Virginia
37.2942 N, 76.4158 W | Grid: FM17
<http://members.visi.net/~kb4dpf/Radio.html>

Date: Tue, 12 Jan 1999 22:45:30 -0700
From: Tim Pettibone <tpettibo@NMSU.Edu>
To: qrp-l@lehigh.edu
Subject: [29551] Got a pelt AND the ZL9 - twice!
Message-ID: <1.5.4.32.19990113054530.006828c8@cnmailsvr.nmsu.edu>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Ah, sometimes it can be good, very good. Went to the shack just before 0200 expecting to be straining and grunting for 2 hours but, nope, really lucked out and got Doc around 0204z. He wasn't very strong but somehow he pulled me out of the noise and qrm. Thanks Doc.

As if that wasn't enough, I went to 20m and heard ZL9CI running a pileup around 14024 listening up 5 (and still is as I speak). Worked him after about 4 calls. Then I had the nerve to go to 30m (10106.1) and worked him on 10108. On 30m he was much weaker than on 20m but he's still running 569 or so here in NM. I've been trying to snag him for a week! So, all in all, it was good night. And good night!

Tim K50I
Las Cruces, NM

Date: Wed, 13 Jan 1999 00:57:23 +0000
From: Todd <kb4dpf@visi.net>
To: n1rui@together.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29552] Re: Slingshots for launching
Message-ID: <369BEF73.4042B40F@visi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim Marciniak wrote:

> I also have stopped using the
> reel, and now only keep the line on the plastic spool the monofilament came
> on. the reel jammed and caused me to be off-target more often than not. I
> unreel the monofilament on the ground before I start - very straight for 30
> or so feet, then I double back about 3 feet from the line and parallel, and
> unreel another 30 feet or so, step another 3 feet to the side, unreel 30
> more feet, etc. This way the reel doesn't decide to visit the trees, and
> pulling is kept to a minimum.

I have seen another "reel" good idea. A road hazard cone (one of the orange types) with the monofilament line wrapped around about the bottom 4 inches or so and the top 5 or 6 inches of the cone cut off. I have never made or used this myself, I saw it in use by a local guy here (N1LO, Mark). I believe he said he even puts a couple drops of vegetable oil on the cone and line to provide

"branch lubrication". I must say in the times I've seen him use it, I have never seen it tangle or hang up. If you have any questions about it, send them to me and I'll forward them to him.

--

Todd McCoy: QRP-L #1823
KB4DPF - Gloucester Co., Virginia
37.2942 N, 76.4158 W | Grid: FM17
<http://members.visi.net/~kb4dpf/Radio.html>

Date: Tue, 12 Jan 1999 22:12:04 -0800 (PST)
From: Jim Knopf <ki7q@yahoo.com>
To: QRP-L Maillist <qrp-l@Lehigh.EDU>
Subject: [29553] Norcal 40A VFO revisited
Message-ID: <19990113061204.22032.rocketmail@send103.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hey, I thought we were a helpful group. So is the NC40A some kind of secret? I know that many of you have to have made the extended coverage modification - but none of you is speaking! Two have told me that I need the 10-turn pot before I even attempt it.... but that's about all they've said. What value for C49? Hey, I have the 10-turn pot on order, so now mebbe I qualify for the answer.

I searched the archives and discovered that in the June 1994 issue of QRPp, on page 74, is an article called "Extended RIT/IT for the Norcal 40."

I'm hoping that some list member will be a good samaritan and look up the value of the capacitor in that article.

Please help this dimwitted old ham.

==

Jim, KI7Q FISTS#5802 QRP-L#1689
<http://www.halcyon.com/knopf/jim>

DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Wed, 13 Jan 1999 01:09:39 EST
From: we6w@juno.com (Ed Loranger)
To: 70511.3041@compuserve.com
Cc: qrp-1@Lehigh.EDU
Subject: [29554] Re: FOX 1/13/99
Message-ID: <19990112.220616.7879.0.we6w@juno.com>

Hey Doc! Very fine business picking up my California signal. It seems a little healthy "Intra-team" competition was in order tonight. :) Yes, we6w beat the ku7y "Kilo-watts from Milliwatts" station :)

Glad ol' Ron is on the same team!

And Doc, congrats for keeping an ear out for us bug users.

Good thing we got you early, the bands here are definately gone for the evening. My usual S9+20 reports from Southern California are QSB's in with them Antarctic polar signals.

Was able to QNI the BMHA net (Bicycle Mobile Hams of America) wearing my new Fox Pelt. Yes! -Ed
72, Ed WE6W QRP-Z#106 -L#1068, AR Millennium QSO's=111/2000
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 01:24:35 EST
From: RangerSF5@aol.com
To: mike1@urbancom.net, qrp-1@Lehigh.EDU
Subject: [29555] Re: NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold your pea...
Message-ID: <93e7af31.369c3c23@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Content-Transfer-Encoding: 7bit

In a message dated 99-01-12 22:15:51 EST, mike1@urbancom.net writes:

<<

You can do this by going to the FCC web site at:
<http://www.fcc.gov/e-file/ecfs.html> You simply insert your comments into
the form and add "98-143" in box #1 titled "Proceeding." This is your last >>
I just tried this URL three times and I keep getting
UNABLE TO OPEN
Bob
WA2HOQ

Date: Tue, 12 Jan 1999 22:35:12 -0800
From: Mercxx@aol.com (by way of Jerry Parker <jparker@fix.net>)
To: qrp-l@LeHigh.edu
Subject: [29556] 5 Watt amp
Message-ID: <2.2.32.19990113063512.00b519a0@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

Is there a kit or a homebrew design for a 5 watt from when you want to take
a milliwatt rig and put some boots on it? I am interested in adding one to my
Micronaut and a couple of other projects.

73s
Steve
N4TKP
FIST 4922
QRP-L 1763

FROM DAN'S SMALL PARTS AND KITS PAGE

IN THE KIT SECTION

<http://www.fix.net/dans.html>

5 Watt Class C QRP Amplifier

>From W1FB's QRP Notebook 1991 Edition, page 129 - 133

Available for 160, 80, 40, 30, 20, 17, 15, 12, and 10 Meters

Dan furnishes board and all board mounted components.

Dan's price \$14.95

Please designate the band you want when ordering.

Date: Wed, 13 Jan 1999 01:42:20 EST
From: we6w@juno.com (Ed Loranger)
To: kelman@dialnet.net
Cc: qrp-1@Lehigh.EDU
Subject: [29557] Re: Mich QRP contest?
Message-ID: <19990112.223851.7879.2.we6w@juno.com>

Hi Kelly. Someone told me it was for this coming weekend. The post on January 6th contained the wrong date. At least that is what I was told.

Then I heard the NA contest and I figured "NO WAY" is there a MI contest running this weekend. So I found a spot on 7062.5 KHz until the NA group started inching up there. Finally turned off the rig. QRP wasn't getting out to good these last few nights anyway.

Hopefully this will change!

72, Ed WE6W QRP-Z#106 -L#1068, AR Millennium QSO's=111/2000
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

On Tue, 12 Jan 1999 22:07:44 -0600 "Kelly Ellison" <kelman@dialnet.net> writes:

>Hi all...

>

>I thought that there was a QRP contest last weekend and I made some
>noise and managed to make a hand full of contacts but there was not much
>activity. Did I get the wrong info? Wrong weekend?

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 02:01:53 EST
From: N7YA@aol.com
To: qrp-1@lehigh.edu
Cc: cw@qth.net
Subject: [29558] Re: NPRM Reply Comment Deadline Jan. 15th, Speak now or forever hold your pea...
Message-ID: <9aa6984a.369c44e1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 1/12/99 10:28:13 PM Pacific Standard Time,
RangerSF5@aol.com writes:

<< You can do this by going to the FCC web site at:
http://www.fcc.gov/e-file/ecfs.html You simply insert your comments into
the form and add "98-143" in box #1 titled "Proceeding." This is your last
>>

I just tried this URL three times and I keep getting
UNABLE TO OPEN
Bob
WA2HOQ >>

I just tried to file a comment too, i filled out the cover sheet and tried to send it, but all it did was start uploading , then slower, and slower...until it stopped loading at 39%, then timed me out. i didnt even get to the comments box! what am i doing wrong? i just want to file, are they keeping me out? wouldnt doubt it. oh well, ill try again in a little bit. just wanted you to know that Bob isnt the only one having trouble with the page.

73...Adam, N7YA

Date: Wed, 13 Jan 1999 00:05:53 -0700
From: K0RWC <rwc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29559] FOX: No Joy
Message-ID: <3.0.5.32.19990113000553.007efe60@mail.frii.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well tonight, 1/12, was my second Fox Hunt failure. Tried for Chuck last week "nutin". Thought I might have a chance at Doc with my new G5RV (51ft shorty version running NNW-SSW, up ~20ft), heck he only live two states

away! ;-)"NUTIN! AGAIN", got on the air 'bout 0330, just one of those things, tuned around, thought my ANT fell down. Tuned around some more & heard a few non-Fox QSO's and an XE (Mexico?) calling CQ but that's all. I was using my Icom746.

So what gives? 2 possibilites: 1. lousy band condx. 2. New G5RV is lousy.

Thoughts:

40M: LOTS OF QRM & QRN Tonite and a pretty good touch of QSB. I've seen this before with my 40M sloper.

G5RV: Worked ME, PA, OH, CA, TN at QRP PWR on 20 &/or 40. Worked NM QRO (50W). Almost worked Hawaii with my NorCal 40 @ ~2W. (Partial exchange we know we talked, no full exchange data to back it up). Heard South Africa, Romania and Mexico.

Conclusions: The G5RV is only a few days old but the evidence mounts that suggests 40M is kinda funky, up & down...etc. Need more OP HRS on the G5RV to be sure. Time will tell.

HOPING I DIDN'T WASTE \$30 ON THE G5RV.

72/3 KORWC
Rod Cerkoney, QRP-L #1764.
Fort Collins, CO
da di dah

Date: Wed, 13 Jan 1999 03:41:48 -0500 (EST)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@lehigh.edu>, eax@w3eax.umd.edu, Laurel ARC <larc-l@webtrek.com>
Subject: [29560] N7JI updated web site, ZL9CI, T20FW
Message-ID: <Pine.LNX.3.95.990113033717.6794G-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi everyone! Guess what? It's raining in Oregon today!

My web site is updated with lots of new pictures...

Worked ZL9CI Tuesday morning on 20m, QRP CW/m.

Tuesday night worked T20FW on 17m SSB/m, but at 25w (I cheated...but it was a new one...Tuvalu, anyone?).

72.5, y'all

Scott Rosenfeld ARS N7JI
541-346-7401 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Wed, 13 Jan 1999 03:28:29 -0500
From: "George Heron" <gheron@idt.net>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [29561] FB40 amplifier
Message-ID: <013e01be3ece\$b9d6a6b0\$653984a9@herong.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Last week, Dave Newkirk, W9VES, performed a high-end circuit simulation and analysis of the Fireball 40 "rev A" power amplifier circuit. Dave's excellent work (including description, diagrams and simulation plots) can be found on his website:
http://members.home.net/dpnewkirk/er/modern/fb40_amp/

Dave's analysis showed that we would should not be able to regularly achieve the "near 1W" RF output level stated in the FB40 manual. Even though our prototypes actually did put out around 800 mW, and one or two guys on the list were able to do this as well, there also were some who were having trouble getting anything near these levels.

Well, taking advantage of the new "rev B" artwork spin for the next round of FB40 kits, our club elmers put together a new-and-improved RF amplifier that most assuredly will achieve the 1W level from the 20-40mW drive produced in the bare-bones FB40. In fact, W9VES had indicated some of the success he had analyzing an oldie-but-goodie output amp from Wes Hayward's "Ugly Weekender" transmitter project (QST for Aug 1981) ... so we went to that two-stage design!

We prototyped the Ugly Weekender on the bench and had some marvelous results. We actually had to pad down the output of the FB40 in order to keep the UW amplifier from generating too much power! (First measurements that the FB40 designer WA2UNN did were at 6W!!) After checking over a few more ideas with W7ZOI on the phone, as well as getting his permission to use the circuit, we proceeded to put this amplifier on the FB40 rev B circuit

board.

So the good news is that when you get your FB40 rev B kit, it will have the pc artwork for you to drop in some standard components from your workbench to boost the 40mW power of the stock FB40 up to over 1W, guaranteed!

MORE GOOD NEWS is that we arranged the pcb such that the FB40 transmitter is on one half of the board, and the UW amplifier is on the other half of the board. This means that you can use the amplifier portion of the FB40 pcb as a general purpose amplifier module on your bench or in another project! We even segmented the ground planes so you could easily cut the board in half and use either the FB40 Tx separately or the amplifier separately in a smaller box. Versatility deluxe!

So, what this all means is that you'll have an ability to put extra components on the FB40 pcb to get you a good, solid 1-to-2 watt RF amplifier. (BTW the harmonics were measured more than 30 dB down ... pretty clean.)

Oh yeah, I forgot to mention that the FB40 rev B circuit board is the same size as the rev A board ... just right for either of them to stack nicely with a matching Fireball Receiver currently in the mill. {Shhhh....}

Thanks so much to Dave Newkirk, W9VES for the unsolicited circuit analysis and recommendation for using the Ugly Weekender amplifier scheme. And also thanks again to Clark Fishman, WA2UNN, designer of the FB40 project and derivatives; and to another Jersey club elmer Joe Everhart, N2CX for providing expert advice and recommendations along the way.

FB40 rev B's will be shipping this coming weekend. And if you haven't ordered yours yet, or if you want to consider ordering another one even if just for the cool amplifier circuit options described here, there are plenty still available. Just see the NJ-QRP website for ordering instructions.

72,

--George Heron, N2APB
n2apb@amsat.org in Sparta, NJ
for the NJ-QRP Club at <http://www.njqrp.org>

Date: Wed, 13 Jan 1999 05:30:53 -0500
From: Herb Watson <puttinggreen@home.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [29562] S-meter for the Norcal 40A?

Message-ID: <369C75DD.73DB45C0@home.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

I just finished a homebrew version of the Norcal 40A. I used the Ivex Winboard program to lay out the circuit board and to my surprise it all works quite well. I used the schematic in the 1995 March issue of QRPp and I took my best guess winding a couple of the inductors. Could anyone with a manual (or an old parts list) tell me what T2 - the receiver bandpass filter and T3 - the IF filter transformer are supposed to be?

Also, has anyone ever come up with a S-meter circuit for the Norcal 40A? I realize the AGC control voltage on the NC 40A is at its lowest when the incoming signal is strongest and also any S-meter circuit would have to be calibrated with the RF gain control in a fixed position.

I haven't made an enclosure for it yet so I've got lots of room.....

Herb Watson AA1IY

puttinggreen@home.com

Date: Tue, 12 Jan 1999 06:49:25 -0500

From: n3aaz-qrp@juno.com (John R Kirby)

To: david.gauding@bbs.galilei.com, qrp-l@Lehigh.EDU

Subject: [29563] Re: W4NVK's "SGA" (More Info)

Message-ID: <19990113.062024.-198419.0.n3aaz-qrp@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Dave NF0R

TNX

John

N3AAZ

.

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or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 06:55:25 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: kb4dpf@visi.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29564] Re: Slingshots for launching
Message-ID: <369C89AD.33DA@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

GAng,

There seems to be a number of different directions you have all taken when launching antennas. Since I "wrote the book" on these antennas, QST, June 1995, I thought it might be good to check in with some advice. I have heard of a number of ways to hold the wire or whatever you're launching.

It is really a matter of friction. You want enough friction to hold the wire steady and not enough to create appreciable drag on the line. Too much friction, too little distance -- too little friction no control! The first antenna and virtually all that have followed at W6TOY.3 used a plastic tumbler with the wire wound around it. (See QST for details) I moderated the tension by using a varying number of double-sided tape strips down the side to hold the wire. I found 3 to 4 strips were about right for launching wire over distances of 40 to 60 feet with a Whammo slingshot. Your results may vary.

Of course it is important whether you are using wire or line. The same setup worked for me up to about 75 feet with fishing line leader at the new location. I launched wire in the original antenna because I was more interested in putting it up before I was seen and had no way to retrieve a leader line. Do what you want to launch your antennas, modified by the location. Don't forget about friction though!

73

Date: Wed, 13 Jan 1999 08:06:36 -0500
From: Bruce & Susan Jenks <bnjenks@snet.net>
To: qrp-1@lehigh.EDU
Subject: [29565] Iambic paddle usage - REPORT
Message-ID: <369C9A5C.56F569A7@snet.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thank you all for you quick responses and information. A great help.
Here are the results: 24 dits on the left side, 4 dits on the right
and 1 either. I suspect that the four on the right side may have meant
using the right index finger but pushing to the left...it can be
confusing. The reference to the bug usage was helpful, too.
Fortunately, I have wired my keyer correctly. (Note: Everyone called
them "dits" and "dahs" and not dots and dashes!)

Thanks again, all of you. What a great resource!

Bruce Jenks
N0EWZ/1
bnjenks@snet.net

Date: Wed, 13 Jan 1999 08:12:51 -0500
From: n3aaz-qrp@juno.com (John R Kirby)
To: qrp-1@Lehigh.EDU
Subject: [29566] Balun or No Balun
Message-ID: <19990113.081257.-65975.1.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

Look at the schematic of most radios.

What are those "twisty" things?

Ever wonder what they do?

"A rose by any other name..." is still a transformer.

John
N3AAZ

.

You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 08:05:35 -0500
From: n3aaz-qrp@juno.com (John R Kirby)
To: qrp-l@Lehigh.EDU
Subject: [29567] Re: Slingshots for launching
Message-ID: <19990113.081257.-65975.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

The reel (spool) bow hunters use for fishing might solve some problems.

I use a slingshot with a spinning reel and lead weights, no problem.

I use a bow for hunting and fishing, no problem.

I have never tried a slingshot with a bow reel.

John
N3AAZ

.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 13:12:28 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [29568] Re: Project help
Message-ID: <369C556C.FA677D49@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My "obsolete" AN/USM-425, also known as a Tek 465M is doing just fine.
Anybody throwing out any 'obsolete' electronics can throw it my

way anytime.

Just because a piece of equipment is obsolete in industry, doesn't mean that it is useless. It may be a major enhancement of the test bench for us part timers and hobbieists.

BTW Anybody tossing spectrum analyzers/service monitors are especially invited to toss them my way! :-))

michael N6CHV (in central Florida)

adamsclan@netgate.net wrote:

>
> Mike,
>
> Well, actually the obsolescence is half the point! Too much fun
> using old stuff to just toss it out.
>
> As per the project, EVERYBODY says use it for the SA, so SA it is!
> Does anybody have a pointer to info on the Hayward/Weber adapters?
>
> 73 de dave, n9uxu

Date: Wed, 13 Jan 1999 08:42:14 EST
From: Bigbob97@aol.com
To: QRP-L@Lehigh.EDU
Subject: [29569] FS TS50
Message-ID: <a1c3b505.369ca2b6@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Friends,
I have a TS50 in great shape which I am offering for sale. \$575 including shipping in continental US. While I do appreciate swaps - in this case I would need most of the cash for another rig. 73,
Bob WB2DHK in Jersey City, NJ

Date: Wed, 13 Jan 1999 08:43:33 -0500
From: DNT1@daimlerchrysler.com
To: n1tp@worldnet.att.net
Cc: qrp-l@Lehigh.EDU
Subject: [29570] Re: FOX

Message-ID: <052566F8.004B6794.00@lmgodd02.notes.chrysler.com>

Mime-Version: 1.0

Content-type: text/plain; charset=us-ascii

Content-Disposition: inline

Tom, N1TP wrote:

> Were band conditions that bad in you neck of the woods? Tonight, at least, we
> QRPers were getting no respect whatever with stations calling CQ CQ all around
> and about Doc's transmit frequency (7.044.60).

I was experiencing QRM from several sources, including an USB broadcast station at 6.890 MHz. Their signals were causing a good deal of distortion in my rig (IC-735, no extra filters), especially when they were playing music! I think I heard at least 5 commercials in a row down there before I finally got any confirmation that it was a BC station and not a pirate(KHMP=K Hemp? Hmm...). They weren't the only ones causing problems for me, but thanks to Doc I still got my pelt! I had to listen hard, seemed that every time Doc was transmitting a SA SSB station running much more power was doing the same. I listened on into the night as the band conditions deteriorated, punching the ATT button every time the tuner-upper did his little dance on the switch. He about took my eardrums out one time, no QRP there! I did notice that the SSB QSO going on near 7.045 went away a bit into the hunt, wonder if they left because of all the noise the tuner-upper was generating or because of us? Oh well, at least I know the vertical's working again!

> and, of course, those pesky Texans, who were LOUD while it lasted.

Maybe our Texan QRPers could do a TX hunt for us, the tuner-upper was about the same level here as they were. Unfortunately, there's probably a good bit of difference in the power levels! ;-)

72,

Don T. AI4CW QRP-L#1670

Date: Wed, 13 Jan 1999 07:54:41 -0600 (CST)

From: Bruce Rattray <rattray@gpfn.sk.ca>

To: Low Power Group <qrp-l@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>

Subject: [29571] Contest!

Message-ID: <Pine.LNX.3.95.990113075040.21162C-1000000@neale.gpfn.sk.ca>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...this one has a QRP category...mark it down!....I'll see if I can get Bob to post the rules.....

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club "QRP! How sweet it is!"

----- Forwarded message -----
Date: Tue, 12 Jan 1999 23:14:07 -0500
From: Bob Chandler <ve3sre@compuserve.com>
To: Bruce Rattray <rattray@gpfn.sk.ca>
Subject: WELCOME (fwd)

Hi Bruce!

Thanks for the welcome...I'm not especially active on QRP but I write the ham radio column in "DX Ontario" and I like to keep an ear to the ground on what's happening in various aspects of the hobby across Canada.

Incidentally I also organize the "Ontario QSO Party" which this year is coming up the last weekend of April and I do have a QRP category in the contest....we had a couple of QRP entries last year and I hope we'll have a few more this year.

We're a smaller contest just in our 3rd year for '99...but we're off to a good start....44 entries in '97 and 51 entries in '98 (in the middle of a major solar storm). My longer term goal is to see us getting an average of around a hundred entries a year...which I think is a reasonable goal.

73 de Bob VE3SRE

Date: Wed, 13 Jan 1999 08:28:43 -0600
From: "Jeff M. Gold" <JGold@tntech.edu>
To: QRP-L #98 <qrp-l@lehigh.edu>
Subject: [29572] Elmor 101 help/comments
Message-ID: <01ff01be3f01\$06010580\$4d0b9595@cc.tntech.edu>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

All,

Well finished up the SW40+ using the QRPP. Loved the project. Put the end results in a small A/B switch box I had. Last night got the parts together for the case (I hate that part), and this morning the kit beckoned. I finished wiring the kit, so it would not leave me alone and demanded that I put it on the scope and check it out.. very clean 2.something watts nice sidetone, plenty of volume. Tweaked the two filters again.. they were already set correctly. Well I was planning on making it to work on time, but the radio said "test me test me!!" Who am I to refuse a poor innocent little radio. quickly made a key cord (to test i just short the plug.. have actually done qsos this way), hooked up my novice straight key, and set of headphones, and a 12 volt gell cell, G5Rv. The receiver instantly let me know I had done good and things were sounding fine. Tuned up and down once and then hears someone calling. I answered, he came right back.. good sign. Had about 40 minute QSO (will now have to work thru lunch). Very stable VFO, great signal report, the standard comment.. "did you say you were running 2 watts?" followed by more comments on signal. Think the VFO gets me about 35 kcs, would like 50. The 2 watts seems fine. Very good QSK EXCEPT

Only noted problem is that there is sometimes a thump on transmit keying in the headphones and can hear bassy sound in headphones.. not sure if I need to reduce audio output, change headphones, get rid of phones and put in speaker? Anyone have suggestions, comments? is mine the only one that does this?

thanks to Norcal and Dave Benson.. really appreciated the therapy.

72

Jeff, AC4HF

Date: Wed, 13 Jan 1999 09:27:21 -0500
From: Michael Maiorana <mikemo@ibm.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29573] Re: Balun or No Balun
Message-ID: <369CAD49.36D745D3@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ok, this may be a stupid question, but I am quite serious.

If no current flows in the shield of a coax then why is it even there?
Like in a balanced resistor bridge, you can connect opposite ends and no

current flows, so making or breaking that connection does not effect the circuit.

It just doesn't make sense to me.

--

72 de ku4qo

Mike "RF Challenged" Maiorana
Palm Harbor, FL

Date: Wed, 13 Jan 1999 07:16:14 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [29574] SST RIT?
Message-ID: <009201be3eff\$4a0e8240\$7aa8a3cc@S&P.www.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Anyone been successful at adding RIT to their SST? If so how ya do it?

TU & 72/73 ...Steve/n0tu-Monument,CO
<http://www.webaccess.net/~s&p/HRindex.htm>

Date: Wed, 13 Jan 1999 09:25:43 -0500
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [29575] 30 meters
Message-ID: <369CACE4.DB994630@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My SW30+ is comming along and should be complete this weekend. I have never been on 30. The question I have is, what frequencies should I set it up for? What is the qrp frequency? My objective would be to work a lot of two way qrp but DX two-way qrp would be way cool.

Ed Kwik AB8DF

Date: Wed, 13 Jan 1999 09:33:21 -0500
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [29576] Fox: Got him
Message-ID: <369CAEB1.45EA12D3@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks Doc,
You were way down in the noise but I was able to copy just enough. Most of the hounds were way down and the band was almost completely dead. I wonder what the solar conditions were? Thanks for another pelt.

Ed Kwik AB8DF

PS: Should have my MI QRP contest log together soon.

Date: Wed, 13 Jan 1999 09:52:26 EST
From: Robspark@aol.com
To: qrp-1@lehigh.edu
Subject: [29577] AR Net tonight!
Message-ID: <58b93d95.369cb32a@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Following is a list of Arkansas QRP Club nets:

Monday Night	0130Z	3.560 MHz	N9ZZ	Bob AR #1 is NCS
Wednesday Night	0130Z	7.042 MHz	AB5ZD	Bob AR #277 is NCS

Nonmembers are welcome (and encouraged) to check in!

Date: Wed, 13 Jan 1999 07:00:16 -0800
From: "Bill Todd" <bill@willapabay.org>
To: <nwq-1@scn.org>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [29578] Next NW QRP Club Meeting THIS Sat

Message-ID: <000901be3f05\$6ef83820\$efadded1@bill>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hello QRPers -

The next regularly scheduled NorthWest QRP Club meeting will be THIS Saturday at Andy's Diner (in Seattle, on 4th Avenue...4 blocks south of the Kingdome) at 11 AM.

Fun, Frivolity, and Fabulous Fooling Around can be yours for the taking, at our next meeting.

Yours truly will not be able to attend because of my work, but just about every other QRP'er in the Puget Sound area will be there, so "come on down", and "turn that frown upside down" (I am getting goofier by the minute folks).

Have fun, and 72's -

Bill-N7MFB

<http://www.willapabay.org/~bill>

ICQ @ 8926298

Date: Wed, 13 Jan 1999 10:16:52 -0500

From: Hank Kohl K8DD <k8dd@contesting.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Cc: we6w@juno.com, n8cqa@tir.com

Subject: [29579] Re: Mich QRP contest?

Message-ID: <4.1.19990113100643.00aabf10@192.0.0.1>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 01:42 AM 1/13/99 -0500, Ed Loranger wrote:

>Hi Kelly. Someone told me it was for this coming weekend. The
>post on January 6th contained the wrong date. At least that
>is what I was told.

Nope.

The post on Jan 6 was correct.

The last copy of "The 5 Watter" was correct.

The web page <http://www.tir.com/~k8dd/miqrp.htm> is correct.

The last copy of CQ, however, was wrong.

Buck, N8CQA, had the word from NCJ that the weekend of Jan 9th was NAQP SSB - not CW. Next year we hope to have it straightened out so that the MI QRP Club January contest is not on NAQP CW weekend.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS <http://www.tir.com/~k8dd>
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

Date: Wed, 13 Jan 1999 09:35:24 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: eakwikjr@hti.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29580] Re: 30 meters
Message-ID: <369CBD3C.5923FE2@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Edward A Kwik jr wrote:

>
> My SW30+ is coming along and should be complete this weekend. I have
> never been on 30. The question I have is, what frequencies should I set
> it up for? What is the qrp frequency? My objective would be to work a
> lot of two way qrp but DX two-way qrp would be way cool.
>
> Ed Kwik AB8DF

Ed, the 30 meter band is only 50 khz wide and your radio will tune 35-40 khz so it should be very easy. You want 10100 to however high you can tune. Above about 10122 or so its mostly digital. So I would say focus on 10100-10122.

I find most of the dx down in the bottom 5-10 khz. Not sure what the qrp freq is anymore. Believe it changed recently and is around 10116 or higher.

Congrats on the SW30+. I am finally going to start my SW40+ this week.
73 de Dave, N0IT

Date: Wed, 13 Jan 1999 08:55:07 -0700
From: Niel Skousen <skousen@srv.net>
To: mikemo@ibm.net, qrp-1@lehigh.edu
Subject: [29581] Re: Balun or No Balun
Message-ID: <4.1.19990113082742.009ab250@if.sciencetech.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Mike,

the issue is transmission line behavior which is EXTREMELY strongly linked to current balance. Current flows in the shield but it must be equal and opposite to the center conductor to a) get the proper transmission line effects, b) restrict radiation. If the currents (center and shield) are un-balanced (as in .9a in shield and 1.0a in center) it is an indication that the coax is radiating and coupling to the antenna or to other metallic structures. This will cause pattern distortion, and impact the swr, antenna tuning, element lengths etc.

This (feedline radiation) is not always a problem in and of itself. Some antennas actually utilize this effect, but as was pointed out yesterday, typically as a ham you want to isolate and control the variables associated w/ antenna and feedline so that when you adjust something like the element length, the results are predicable and the result of only one variable, else fields work (ant's etc) can get really confusing in a hurry.

Hope this helps
Niel

At 09:27 AM 1/13/99 -0500, you wrote:

>Ok, this may be a stupid question, but I am quite serious.

>

>If no current flows in the shield of a coax then why is it even there?

>Like in a balanced resistor bridge, you can connect opposite ends and no

>current flows, so making or breaking that connection does not effect the
>circuit.

>It just doesn't make sense to me.

>--

>72 de ku4qo

>Mike "RF Challenged" Maiorana

>Palm Harbor, FL

Date: Wed, 13 Jan 1999 09:11:32 -0700
From: jaywa5whn@juno.com
To: qrp-l@lehigh.edu
Subject: [29582] Ten Tec receiver access via the internet
Message-ID: <19990113.091136.-383327.0.jaywa5whn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Courtesy of N2JEU. You will need Real Audio 5.0

<http://hamshack.ralabs.com/cgi-bin/webradio.exe>

It's interesting to listen to the QRP pile ups with diversity reception.

Feb. 6, 1999 for FYBO 1999, WA5WHN/7 on the north slope of Morgan Mountain, AZ {grid square: DM54be}.

72...Jay, WA5WHN DM65qd Albuquerque,
NM USA

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 11:19:00 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, "_Nogaqrp_List (E-mail)" <nogaqrp@qth.net>
Subject: [29583] RE: MRX-80 (?) (with apologies to K8IDN)
Message-ID: <21E06269B00ED111BE9B00805F6D0FA35BE6C6@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

Having face and eliminated the BCI interference with my PIXIE 40 I think that you can add one more simple MOD to the rig and eliminate the 39 mtr BCI. Calculate a LC series circuit for the 7350 kHz frequency and put it across the input of the Rx antenna connections to the RF gain pot. If you're sharing an antenna and using the TX and Rx in xcvr mode then you can put this series trap directly across the end of the coax or tuner into the

Rx/TX.

I have been able to eliminate the 39 mtr BCI from my 40 mtr PIXIE and while working the PIXIE of 7040 kHz hear NO BCI. I did extend this filter to have three notch traps, one at 7.35mHz, 6.050 mHz, and 5.1 mHz. As you can see I had a serious problem plus local AM BCI. These are not just connected in parallel so don't try that but the single one can directly be attached. My PIXIE with my Longwire could hear everything HiHi. These foreign broadcasts have signals that are better than S9+50dB on the S-meter of my ICOM 756 so I know the PIXIE was taking a beating.

If anyone would like to get the three notch filter design I'll be glad to email a graphics attachment or FAX it to you. This will show you how the three notch traps are connected related to the antenna, rig and each other. I'm seeing about a <2dB attenuation at 7040 kHz with it. The minimum attenuation is >22 db above and below 7040 KHz and >45dB in the notch areas +/- 20 kHz. I tuned my notches specifically for certain stations. My PIXIE40 @ 150mW has worked 12 states in a fairly short time.

With your 80 mtr receiver your remaining problems should be solvable with the single notch trap.

Sam Billingsley AE4GX Atlanta,GA

>>>snip >>>

> 2) Scaled the tuned-input circuit from 40M to 80M per prior appends
> (L=10uH, C1=220pF, C2=910pF). Encountered very serious BCI from
> 39meters. Replaced the 10uF molded RF choke (from the junk box) with a
> wound coil at 10uH (23 turns 30ga. enamelled wire close wound on
> FT-37-63 ferrite toroid, which is 10.4uH, but is actually closer to the
> L needed for resonance). With better Q, BCI significantly reduced, but
> still clobbers the CW signals on 80M making them only about 1 or 2 dB
> above the noise. At the suggestion of Sam, AE4GX, removed the DC
> blocking capacitor, added a 3-turn primary on the toroid, one end
> connected to ground and one end to the arm of R4, and removed R1. This
> puts C1 & C2 in series (Ctotal = 177pF) and a parallel resonant (with
> L1) balanced input. Much improvement, and could copy several CW signals
> now quite nicely (still BCI from Radio Canada, RCI).
>

>>>> snip >>>>

72 de Mike, K04WX

--

Mike Boatright, K04WX

Date: Wed, 13 Jan 1999 07:18:34 -0900
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [29584] AL7FS Denver tonight and tomorrow.
Message-ID: <369CC75A.EE5CD854@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Subject: AL7FS in Denver Jan 13-15
Date: Thu, 07 Jan 1999 20:40:31 -0900
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>

Hello Denver!

I will arrive in Denver Wednesday at 611PM on Delta and I am staying at
The Courtyard Denver, 6901 Tower Road, 303-371-0300.

Anyone want to have dinner Thursday eve. Call me at the hotel?

I am on the run to the apt so this note may be disjointed. excuse pse.

Jim

I am also still planning to be in Seattle Jan 20-24. Plans seem to be
coming together there for a get-together. jl

--
73, Jim Larsen, AL7FS -- Anchorage, Alaska
QRP-L #114, QRP-Z #020, AK QRP #003, NW QRP #009
(BP51cc)@61.1009636 North 149.8237915 West(approximately)
mailto:al7fs@qsl.net ICQ 11022915 <http://www.mirabilis.com/>

Date: Wed, 13 Jan 1999 11:21:20 -0500 (EST)
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
To: qrp-l@lehigh.edu
Subject: [29585] Re: Balun or No Balun
Message-ID: <40880.owen@piper.eeel.nist.gov>

In message Wed, 13 Jan 1999 09:27:21 -0500,
Michael Maiorana <mikemo@ibm.net> writes:

> Ok, this may be a stupid question, but I am quite serious.

>

No question is a stupid one Mike--just some stupid answers at times.

> If no current flows in the shield of a coax then why is it even there?

Current does and must flow in the shield of a coax. What many forget is this flow in a properly matched and balanced systems is ONLY on the inside surface of the shield. It should be equal and opposite of the current in the center conductor. When the coax, which is an unbalanced system is connected to a dipole without a balun, which is a balanced system, then currents will flow on BOTH the inside surface and the outside surface of the shield. That flowing on the outside surface will radiate. To prevent this we can use either a balun to change the balanced antenna to an unbalanced input or we can coil a length of the coax at the feedpoint to form a choke to prevent current from flowing back on the OUTSIDE surface of the shield.

> It just doesn't make sense to me.

> --

I hope it does now.

72 Jim K4CGY qrp-1 #72

Date: Wed, 13 Jan 1999 11:31:42 -0500 (EST)

From: Laura Denise Halliday <lha@sdr.utias.utoronto.ca>

To: qrp-1@lehigh.edu

Subject: [29586] VXOs - a new(ish) twist

Message-ID: <Pine.SOL.3.92.990113110957.18086B-1000000@madrox>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

The January 1999 issue of RadCom arrived yesterday, and one of the items in Technical Topics was on VXOs.

The idea is that the best VXOs use variable inductors, but good variable inductors are hard to do well. So it discusses a VXO that uses a variable capacitor at the other end of a lumped-element quarter-wave transmission line, thus flipping the reactance over and making it look like a variable inductor. It refers to an article that was in Ham Radio, January 1982.

With modern (fast) op amps you might also be able to solve your inductor problems with a gyrator. You might

also be able to make active IF filters with op amps.
Hmmm...

No, I haven't tried any of this (yet). It's in the Things To Try queue, which shows no signs of getting shorter.

The same issue of RadCom also has part 2 of G3PLX's article on PSK31, and the beginning of an article on an AD9850-based VFO.

Laura Halliday VA3LDH "Que les nuages soient notre
Grid: FN03gs pied a terre..."
 - Hospital/Shafte

Date: Wed, 13 Jan 1999 09:35:25 -0700
From: Jim Kjar WA0CML <jkjar@chisp.net>
To: eakwikjr@hti.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29587] Re: 30 meters
Message-ID: <369CCB4D.7D69AE0B@chisp.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ed,

I work 30 every day and often but not always qrp. The published qrp calling freq is 10.106. The qrp-1 suggested qrp freq is 10.116 ---this is a much better as this part of the band is less crowded and there are several active qrpers monitoring. There are qrp stns from 10.112 to 10.122 most every day. I have been on 30 since day one in 82---Good luck es 73

Jim
WA0cm1 cq#55 ARCI # 7144

Edward A Kwik jr wrote:

> My SW30+ is coming along and should be complete this weekend. I have
> never been on 30. The question I have is, what frequencies should I set
> it up for? What is the qrp frequency? My objective would be to work a
> lot of two way qrp but DX two-way qrp would be way cool.
>
> Ed Kwik AB8DF

Date: Wed, 13 Jan 1999 09:50:06 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Laura Denise Halliday <lha@sdr.utias.utoronto.ca>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29588] Re: VXOs - a new(ish) twist
Message-ID: <Pine.BSI.3.96.990113094857.12663A-100000@usr01.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

You could make a very good variable inductor using a transductor.
See my article in the Nov/Dec issue of Applied Microwave & Wireless.

On Wed, 13 Jan 1999, Laura Denise Halliday wrote:

>
> The January 1999 issue of RadCom arrived yesterday,
> and one of the items in Technical Topics was on VXOs.
>
> The idea is that the best VXOs use variable inductors,
> but good variable inductors are hard to do well. So
> it discusses a VXO that uses a variable capacitor at
> the other end of a lumped-element quarter-wave trans-
> mission line, thus flipping the reactance over and
> making it look like a variable inductor. It refers
> to an article that was in Ham Radio, January 1982.
>
> With modern (fast) op amps you might also be able to
> solve your inductor problems with a gyrator. You might
> also be able to make active IF filters with op amps.
> Hmmmm...
>
> No, I haven't tried any of this (yet). It's in the
> Things To Try queue, which shows no signs of getting
> shorter.
>
> The same issue of RadCom also has part 2 of G3PLX's
> article on PSK31, and the beginning of an article on
> an AD9850-based VFO.
>
> Laura Halliday VA3LDH "Que les nuages soient notre
> Grid: FN03gs pied a terre..."
> - Hospital/Shafte

>

```

      .------.
     /  What's all this  \
    / extinct stuff, anyhow? \
   / -----,-----'
  /
 oo\
(--) \
     \  .  .
      \  '  '
       \  "  "
        \  ( ) \
         \  '-| )__| :. \
          \  | | | | \  '
           \  c__; c__; '-.. '> .__

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Wed, 13 Jan 1999 11:50:11 EST
From: SKIPNC90@aol.com
To: ki7q@yahoo.com, qrp-1@Lehigh.EDU
Subject: [29589] Re: Norcal 40A VFO revisited
Message-ID: <a6911380.369ccec3@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Jim,

In the artical you asked about C49 is not mentioned at all. The only changes are to a resistor values and some additional circuitry added for XIT.

Changes :

	From	To
R15	5K1	1K

New Parts Needed :

4 100K resistors

1 DPDT switch with center off position

Cut the +8v trace feeding the RIT circuit Op amp going to pins 2 and 5 and add two 100K resistor as a voltage divider to these pins and one to +12v (your supply voltage) and one to ground.

This will give you RIT of +4KHz to -0.7KHz.

To add XIT you need a DPDT switch with center off position. One wiper of the switch connects to the new voltage divider at pins 2 and 5 (we will call this S1a). The other wiper connects to the original rit switch wiper wire, there is a 100K resistor connected from this wiper to ground (we will call this S1b). With the new switch one position is XIT and the other is RIT with the center as XIT/RIT off. With the switch in the XIT position the S1a N/C terminal for xit there is a jumper to the S1b N/O terminal and connected to the R18/D101 connection. There is a 100K resistor connected from the +12v to S1b N/C terminal on XIT. The S1a N/O on XIT terminal is not used.

I hope this is a good discription, if you need some clairification on anything let me know. As far as C49 goes try increasing the value to 50 or 75pf and see what you get, this will change the RIT and VFO range. Try it and let us all know what you get.

73, Skip NC90

Date: Wed, 13 Jan 1999 08:23:19 -0800
From: Dave Barrett <DBarrett@creo.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [29590] qrp-1 Y2K - the upside
Message-ID: <CE0A40BFE0CDD111A2B800A0C99B83EB94CA55@msgcreo2.creo.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain

> January 1, 2000
> Re: Vacation Pay
>
> Dear Valued Employee:

>
> Our records indicate that you have not used any vacation time over the
> past 100 year(s). As I'm sure you are aware, employees are granted 3
> weeks of paid leave per year or pay in lieu of time off. One additional
> week is granted for every 5 years of service.
>
> Please either take 9,400 days off work or notify our office and your
> next pay cheque will reflect payment of \$ 8,277,432.22 which will include
> all pay and interest for the past 1,200 months.
>
>
> Sincerely,
> Automated Payroll Processing

Date: Wed, 13 Jan 1999 12:26:17 EST
From: JCoote@aol.com
To: Wa2eaw@aol.com, qrp-1@Lehigh.EDU
Subject: [29591] Re: Help in feeding long wire.
Message-ID: <35303f34.369cd739@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 99-01-12 16:19:18 EST, Wa2eaw@aol.com writes:

<<
To all;
I have a sneaky long wire on the condo roof(forbidden) It is end fed by
coax
that snakes down the side of the condo to my patio, and then to the antenna
jack on the back of the rig. My question is...I imagine that the coax between
the rig and the bare wire on the roof is now part of the long, end fed wire.
Is this good,bad or what ever.
Help in this question is appreciated.
Thanks et 72/73 de Wa2EAW..Bob
>>

Bob and the List;

You are better off to feed a stealth wire with a manual tuner and there should
be no coax between the tuner and antenna. The tuner ground terminal should go
to a counterpoise wire (also outdoors if possible) or an "opportunistic" RF
ground. Try to get the antenna and counterpoise wires outside, with as little
wire as possible indoors or parallel to conduits and utilities.

Automatic couplers (AKA tuners) for outdoor use are great (if you can afford

one).

The coupler will allow you to get the wire and counterpoise up, out and away from the building. These tuners connect at the antenna feedpoint- be it whip, wire, or mast- so coax and perhaps a control line are used between the remote tuner and radio.

A manual or automatic tuner (by automatic I mean the REAL kind which goes outdoors and not the coax only types in some import transceivers) is a must for getting a wire to perform on 1.8-30 MHz, and, is a must for getting the wire to work in new sites.

One of many disguise antennas I've used was to take a lot of TV ribbon (or can be TV coax) and run it to the building roof (treating it as a radiating part of a longwire). For realism, the wire may be attached to a TV antenna on a 10 to 30 foot mast. The TV antenna and both conductors of the ribbon are bonded so they are electrically one conductor. In some cases, my counterpoise (or RF ground wire) was a fake TV coax or fake telephone wire outside the building, appropriately attached. The two leads of the fake TV antenna wire go to the antenna terminal of a manual tuner; the counterpoise to the ground terminal.

73,

Jay Coote
W6CJ
Los Angeles

Date: Wed, 13 Jan 1999 11:49:44 -0600
From: "Phillips Richard" <phillips@msoe.edu>
To: vlantz@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29592] Re: The Importance of Baluns
Message-ID: <369CDCB8.28DD62B8@msoe.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

You don't

Vann G Lantz wrote:

>

> I have about 25 feet of RG8 (I love big coax) feeding my inverted vee.

> Would I need a balun?

>

> If so, can someone explain about making:

> >an air choke balun out of the first 10 feet or so of Coax

>
> Vann Lantz, KF4QHJ, AL
> QRP-L #1790, AR QRP #241
> VLantz@Juno.Com
> Http://members.xoom.com/VLantz/home.htm
> "If there is no God, then who pops up the next Kleenex in the box?"
>
> -----
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
> or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 11:55:19 -0600
From: "Phillips Richard" <phillips@msoe.edu>
To: ac5ez@webtv.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29593] Re: Baluns
Message-ID: <369CDE07.3D1BFCD9@msoe.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This guy knows what he's talking about!

Larry B wrote:

>
> With a dipole close to the ground , a balun will have no affect on the
> pattern whatsoever and if per chance you do have some current flowinf
> on the shield , so what, maybe you can work some one with it. Running
> qrp I dont want any loss in a balun which does nothing for a dipole
> close to the ground.
> k1zw

Date: Tue, 12 Jan 1999 20:22:58 -0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: <jeffj@scott.net>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [29594] Re: Kits for a newcomer
Message-ID: <[000301be3f20\\$4c1e2560\\$73ecb094@t7w6w7](mailto:000301be3f20$4c1e2560$73ecb094@t7w6w7)>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

You may like to view my web site as there are some FAQ's which may help you choose.

Best wishes from UK

.....

Frank G3YCC qrp-1 #348

GQRP Club 042

(g3ycc@g3ycc.prestel.co.uk)

Award winning QRP Web Site:

<http://www.homeusers.prestel.co.uk/g3ycc/index.html>

Date: Wed, 13 Jan 1999 13:20:04 EST

From: N10DL@aol.com

To: qrp-1@Lehigh.EDU

Subject: [29595] OHR400/OHR500 FOX

Message-ID: <b2dc8007.369ce3d4@aol.com>

Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit

Content-Transfer-Encoding: 7bit

Thanks Doc, for the great contact and my 2nd fox of the season. So...how does your old OHR400 sound from New Hampshire. Did not hear you at first but you came in strong a bit later. was using my new Whiterook MK-99 Keyer and was a bit rusty, sorry. Antenna is a longwire out my window up 30 ft.

Thanks for the "pelt"

Aron Brown

N10DL

qrp_1/#1326

Date: Wed, 13 Jan 1999 11:21:24 -0700

From: tom whalen <wb5qyt@eFortress.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [29596] manual info Spirit 40?

Message-ID: <369CE424.4788@eFortress.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

QRPer's!

I told someone on this list I would make a copy of a manual for them.

Due to a hasty shack cleaning....I lost all info...pse get back to me..

I believe it was for the OHR Spirit 40?

72, Tom WB5QYT

Date: Wed, 13 Jan 1999 10:57:02 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-1@lehigh.edu>
Subject: [29597] How to modify the NorCal 40 VFO for Full Coverage
Message-ID: <01be3f26\$81a47b20\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In the March 94 issue of QRPp, Terry Young, KC6SOC wrote the following article.

On receipt of my NorCal 40, I was very excited about the prospects of assembling something, a transceiver, that really worked. Like every other project I've taken on, I could not leave the thing stock, and felt the need to do a little customizing to make it my own.

My goal was to get the rig to cover all of the CW portion of 40M from 7.000 to 7.150 MHz. After consultation with my friend, Bob Warmke, W6CYX, and a bit of experimentation, I was able to achieve the goal. If you follow the directions below I'm sure you will be able to duplicate my results.

1. Prepare the NorCal 40 for operation in the 7.100 - 7.150 portion of the band. Only 59 turns on L9, and change C49 from 39pF to 43pF silver mica. The change to 43pF will expand the tuning range of R17 to about 48 kHz. You could probably use another pF to gain 50+ kHz if you wish.
2. A trip to the junk box (surplus store) for some parts. I had decided to incorporate a 3 position slide switch into the circuit to allow shunting trim caps across C50 and L9. The switch I selected was a Switchcraft unit, but any suitable switch will do. The trim caps were 8-40 pF units. Total cost for the modification: one switch = \$.25, one silver mica capacitor - \$.20, two trim caps - \$.35 each, making the total \$1.15 plus the time to do the mod.
3. The front panel needs to be modified to accept the slide switch. I positioned my slide switch just above the RIT control pot, about 1/2 inch from the top edge of the front panel. I laid out a line parallel to the top

edge. Using the control pot hole to establish center, two holes were drilled symmetrically about the center to mount the switch. A slot was then opened up between the center to allow the switch to reach all three positions. (I would suggest using a nibbling tool here, Doug, KI6DS).

4. The trim caps I selected were mounted directly to the back of the slide switch. The switch was wired so that the extreme right position would have no connection, since this would be the high end of the tuning range, 7.100 - 7.150.

5. To wire the switch assembly to the PCB, I drilled two small (.030") holes. One close to the pads for C49 and C51, and one into the ground plane area just across from the first hole. (NOTE: These instructions are for the original NC40 board, check your Wilderness board for a suitable place to position the holes, KI6DS).

6. Tune up was easy. the rig is first tuned to the primary range of 7.100 with the VFO in full CCW position. Next the switch was placed in the center position, and the trim cap is adjusted to give a signal at 7.050 with the VFO full CCW. Finally the last trim cap is adjusted to 7.000 after moving the switch to the proper position. After replacing the covers I found that the range was pulled down about 500 Hz, so watch the band edges.

The final tuning range of my rig is 7.000 - 7.044, 7.050 - 7.096, and 7.100 - 7.148. I had fun, and expect you will too.

72, Terry, KC6SOC

The above was originally published in QRPP, March 1994. The material is copyrighted, but permission to publish in NON - commercial publications is hereby granted provided that full credit is given to the author and to QRPP. (If you want to put it in a club journal, go for it.) Permission is NOT granted to put this material on a web page.

I hope this helps those of you who are NorCal 40 owner/operators. QRP-L comes through again.

72, Doug, KI6DS

Date: Wed, 13 Jan 1999 18:59:27 +0000
From: Ed Loranger <we6w@qsl.net>
To: qrp-l@lehigh.edu
Subject: [29598] Mini Vacation.
Message-ID: <369CED0F.19F7@qsl.net>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang, the computer at QTH WE6W will be off for the next day or so.

If you send me email since Midnight Pacific time, I can't read it yet.

Urgent questions from my elmer group will be answered when possible and from here at qsl.net.

Best regards.

-Ed

--

-Ed AR QRP Millennium QSO's=105/2000
72, Ed WE6W, A-1 OP; <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 QRP-L#1068 AR#112 NC#2227 ARCI#9397 QAA#006

Date: Wed, 13 Jan 1999 01:30:11 -0500
From: "George F. Allgood" <k4pym@carol.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29599] Re: NPRM Reply Comment Deadline Jan. 15th,
Message-ID: <001801be3ebe\$3248e920\$c8cbeed0@204.116.183.2.carol.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I did it.

Wrote a couple of comments to the FCC about NPRM.

I told 'em to leave the Morse Code testing requirements alone.

I told 'em to remove the Physician's Certification section from the back of the 610 Form because that's the crack in the wall where the boogers are getting in.

Forgive my lack of faith in the system, but I have a feeling I would have made better use of my time reading a good book.

But I did comment.

George
K4PYM
Walhalla, South Carolina
The Garden of the Gods.

Date: Wed, 13 Jan 1999 12:58:09 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29600] Heathkit info
Message-ID: <369CFAD1.1F33@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

QRPer's,

Does anyone have any info on the Heathkit remote antenna tuner, that utilized a motor driven variable capacitor?
Saw one at a hamfest and did not buy it...Now, I have a big capacitor with a motor and am wanting to build my own version.

Guess I could experiment and find the right length of wire..etc..., but wanting to save time!!

72, Tom WB5QYT

Date: Wed, 13 Jan 1999 14:15:18 -0600
From: "Rich McCabe" <rmccabe@dwx.com>
To: "QRP list (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [29601] Kit and Hello All !
Message-ID: <000601be3f32\$ae863be0\$6300000a@rmccabe.dwx.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

First of all I would like to say hello to the group. This is my first post and I am just getting ready to start in the world of QRP.

I guess my interest is two fold..

- 1) I love to build things.. I think a QRP rig is a great way to do it and learn in the process. You sure cant build a FT1000MP can you.... Or easily !
- 2) I think you associate with the real hams and not the "CB'rs" that are migrating into our hobby. Where is the FCC these days ???

Well I just noticed I am rambling.. The question. I want to buy a kit to build. I am looking at the the Norcal 40a and the Sierra. I have read some excellant receiver comments about the 40a. How does the Sierra compare. Cost aside, what is the better rig ?

This new Elecraft is sure a beauty.. I may consider one of those later because of my above mentioned desire to build things. It doesn't quite seem to fit the spirit of QRP though. Keep in mind I am a baby QRP'r and dont understand the ins an outs yet.

Once again hi to all.. Any comments are appreciated.

73,

Rich McCabe
KD0ZV
Des Moines, Iowa

Date: Wed, 13 Jan 1999 15:40:51 -0500
From: Carl Hyde <carl.s.hyde@lmco.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [29602] NPRM Comments
Message-ID: <369D04D3.5FC19520@lmco.com>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

I sent my comments in also. Told them if they can't eliminate the code as a requirement then it should be no more than 5 wpm for everyone. Also told them that Physicians certificate should be removed from the form and any physical reason a ham can't listen to a code tape should be proven to to the VEC in person. Also commented that the electronic theory and operator knowledge should be increased via the license levels. Code is just another operating mode and is the main reason the hobby is dying off as the OFs die off with it. If the hobby is to survive in any viable form we have to change, come out of the dark ages and think of the hobby in general. The formost goal being to increase the number of hams holding a license. We are losing spectrum every month to commercial companies because we are losing our influence with congress and the FCC. Hams in the US aren't experimenting with new modes and are shying away from the UHF bands where we are losing the most opportunities for future amateur experimentation. Hams in europe and the far east are leading the way with research and technology in the

UHF bands while we in the US are arguing over 5 wpm of code. If it were up to the FCC there would be no more amateur radio and the spectrum could be sold off to baby monitor companies and security system manufacturers. Yes you guys worked hard to learn code at high speeds and there was a good reason for doing so, the world relied on Morse code and CW for communications. Well guess what, the world doesn't care about the code anymore, and as far as commercial use is concerned its dead. If the code is to be preserved as an operating mode then we should encourage new hams by showing them the advantages and fun of learning and using cw modes. Instead we use it as a barrier to discourage new hams from ever even being interested in advancing their knowledge of the HF bands. I got my technician license and never had any desire to move up because I was only interested in VHF and UHF. I was happy talking on the repeater and experimenting with packet and APRS. It wasn't until I met someone backpacking with a QRP rig that I became interested in CW. If not for that chance meeting I wouldn't be upgrading. Yes I'm learning 13 wpm and will use cw as another operating mode, but I would be happier if 5 wpm were the requirement for general. Well enough of this. Sorry I took up so much bandwidth.

--

Carl Hyde

Date: Wed, 13 Jan 1999 13:49:58 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>, 70511.3041@compuserve.com, qrp-1@lehigh.edu
Subject: [29603] Re: Tks from FOX K0EVZ :-)
Message-ID: <199901132049.NAA03928@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Hi, Doc--

>>njured my one good arm when I fell hard just 15 minutes before the hunt began. Really hampered the operation. Very sorry my fist was so often erratic<<

You did an excellent job as usual, and very good sigs into Denver when I worked you. Hope your arm is feeling better soon!

73

Marshall Emm

N1FN/VK5FN

n1fn@MorseX.com

Morse Express

"Everything for the Morse Enthusiast"

<http://www.MorseX.com>

(303)752-3382

--

Date: Wed, 13 Jan 1999 14:55:46 +0000

From: "Bryan Turner" <turnerw@email.uah.edu>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, rmccabe@dwmx.com

Subject: [29604] Re: Kit and Hello All !

Message-ID: <199901132101.PAA30570@uahis1.uah.edu>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Content-Transfer-Encoding: 7BIT

If you want a simple, inexpensive, quality kit, you should consider the Small Wonder Labs SW series. The web page is at:
<http://www.fix.net/~jparker/sml.html>

These are single band CW transceivers. I believe the first version appeared as an article in QST, and is covered extensively in the ARRL book "QRP Power." The kit has been improved over the years.

Also, if you get this kit I highly recommend the Freq Mite frequency counter which is available for \$20. A custom case is also made for the kit.

A year or so back when I decided to build a kit. After comparing several factors (including cost) I decided on the SW. Although there are quite a few good kits on the market I feel that I made the best choice.

73 Bryan W8LN

Date: Wed, 13 Jan 1999 21:38:22 +0100

From: "Lars Harbo" <harbo@post3.tele.dk>

To: <vlantz@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [29605] Sv: The Importance of Baluns
Message-ID: <19990113205723.BLLS1275.fep1@oz1iva>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Vann

You Always NEED a balun. Sometimes antennas work without, but a choke balun keeps the current from using the outside of the braid as a conductor (wee hope) and therefore helps keep the TXpattern in place. (And nearby objects of all kind helps to distort it).

A choke balun: Make a nice coil of 5 to 10 turns with a 1' diameter (@80m's) and keep it in place with electrical tape, string or what you have. Don't make it into a single layer coil. It's impractical. Such a balun is easy to make, cheap and you dont loose your mW's in questionable (soldered?) joints. And it's reusable!

Have fun!

72 de OZ1IVA
- Lars

International letters are a problem uuith most computers.

Image houu America uuould have greeted Bill's computer if they had to print tuuo u's instead of a single uu.

Lars Harbo - a crazy dane...

> Fra: Vann G Lantz <vlantz@juno.com>
> Til: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Emne: Re: The Importance of Baluns
> Dato: 12. januar 1999 21:25
>
> I have about 25 feet of RG8 (I love big coax) feeding my inverted vee.
> Would I need a balun?
>
> If so, can someone explain about making:
> >an air choke balun out of the first 10 feet or so of Coax
>
> Vann Lantz, KF4QHJ, AL

> QRP-L #1790, AR QRP #241
> VLantz@Juno.Com
> Http://members.xoom.com/VLantz/home.htm
> "If there is no God, then who pops up the next Kleenex in the box?"
>
>
> -----
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
> or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 13 Jan 1999 13:15:40 PST
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [29606] JRC parts info request
Message-ID: <19990113211540.22042.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain

I've got an old cell phone box which I am surveying for useful parts. There are several chips bearing the letters JRC but I can't find any info on JRC's web site or elsewhere. These include the 8 pin DIPs marked 2903D and 4560D and some 16 pin DIPs marked 2204AD. Any idea what these are? Other chips in this unit include Toshiba S-AU21 power module, TC9181 PLL and TD6127 prescaler.

Thanks,

Brad

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Wed, 13 Jan 1999 14:30:27 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29607] Call signs and QTH's
Message-ID: <369CAE03.7911DFFA@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I think Chuck mentioned this once before, but I'll post it for the new folks.

PLEASE include your callsign and QTH (City,State) in your signature line. If you don't have a signature line, create one. Just a one-liner will do, but it's nice to know the callsign/location of posters.

--

72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Wed, 13 Jan 1999 13:30:49 -0800
From: talljazz@teleport.com (Dan Presley)
To: qrp-l@LeHigh.edu
Subject: [29608] Fox Alert!!
Message-ID: <v01530503b2c2bf922434@[216.26.2.44]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

"Round 2" for me-N7CQR on Thursday 1/14 (0300-0500 Fri 1/15 UTC). I'll be operating from the QTH of KA7OZO,Dave Kidd(using my call), and will be using a variety of antennas-he has a rotatable 40 M dipole, G5RV at 50 Ft, and a vertical. This way, we ought to increase our coverage! I'll be on 7043 +/-, and let's see if we can break the 100 qso mark! As before, I'll be using RIT, and occasional listening on my freq for the 'stuck' guys. Hope you east coasters can stay up late-the band seems to open nice & long around 0400.

Dan N7CQR

Date: Wed, 13 Jan 1999 13:30:17 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: "Larry East" <w1hue@amsat.org>
Cc: "QRP-L list" <qrp-l@Lehigh.edu>
Subject: [29609] Re: Project help
Message-ID: <25ee01be3f3b\$ecf76850\$140a0a0a@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Oops! The url is case sensitive. Try

<http://www.teleport.com/~w7zoi/SA.html>

Sorry about that!

Mike K1MG

>>Bill Kelsey of Kanga US has boards and parts kits.
>> Wes has a web site at <http://www.teleport.com/~w7zoi/sa.html>
>>
>>That should take care of it. Good luck!
>>
>
>Wanta bet?? :-)
>
>>The requested URL /~w7zoi/sa.html was not found on this server.<

Date: Wed, 13 Jan 1999 16:34:33 -0500
From: w2bj@juno.com (Barry J Minsky)
To: cw@qth.net, forsale-swap@qth.net, qrp@qth.net, qrp-1@lehigh.edu
Subject: [29610] FS - SEVERAL ITEMS
Message-ID: <19990113.163435.-164605.0.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have several units in excellent condition to sell. I am trying to clear out the shack to make room for other toys.

1. SW-30 built and in excellent condition. It is in the Small Wonders Labs case built for it. \$85.00 shipped in CONUS.
2. 38-Special with Tick Mod, RIT Mod, 10 to 1 dial, and power Mod. It is built into a small painted case and works extremely well. \$70.00 shipped in CONUS.
3. OHR DD-1 digital dial. \$60.00 shipped in CONUS.
4. OHR SCF-1A SCAF filter. This is no longer being produced. \$65.00 shipped in CONUS.
5. MFJ 949E tuner in excellent shape. \$95.00 shipped in CONUS.

Please add \$3.00 if you want the item insured.
72/73,

Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century
Club #569, FISTS CW Club of Coastal Georgia, Knightlites, Adventure
Radio Society #359,
Six Club #151, QCWA #29298, OOTC #3723
Amateur Radio Missionary Service

Date: Wed, 13 Jan 1999 22:30:12 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: qrp-l@lehigh.edu
Subject: [29611] Updated Ham Radio/QRP web page
Message-ID: <369d1dd7.15021159@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

I have:=20
two Heathkit wattmeters/SWR meters (2kW)
a Santec W200 watt/swr meter (10W/200W) good to 150 MHz
two 4AH (amp hour) sealed lead acid batteries.
one 7AH sealed lead acid batteries
32x Creative CD-ROM drive
One DQ-750 clock -- 12/24 hour, day/date, temp -- new in package with =
battery
The MFJ pocket Morse Code Tutor

I want:
A vibroplex Brass Racer magnetic iambic paddle.
A CMOS III keyer (kit or already assembled).

I also encourage you to visit my newly-updated web page, complete with =
station
photos from my NEW (to me) digital camera!

<http://home.earthlink.net/~mwattcpa/hamradio.html>

--
72 es 73 de Marty, KM7W

-----=

Memphis, Tennessee =
<http://home.earthlink.net/~mwattcpa>
VE -- NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid =

EM55ce

CODE WARRIOR(c) #29 -- Mobile CW -- "Taking Code on the Road with a =
Vengeance"

Date: Wed, 13 Jan 1999 15:45:57 +0000
From: Bob Hightower <ki7mn@extremezone.com>
To: rmccabe@dwx.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29612] Re: Kit and Hello All !
Message-ID: <199901132231.PAA00713@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:15 PM 1/13/99 -0600, Rich McCabe wrote:

>
>Well I just noticed I am rambling.. The question. I want to buy a kit to
>build. I am looking at the the Norcal 40a and the Sierra. I have read some
>excellant receiver comments about the 40a. How does the Sierra compare. Cost
>aside, what is the better rig ?
>

They are both great rigs, but the Sierra gives you multi-band capability,
with a module for each band desired. I have had the 40A, and now have a
Sierra, which I prefer due to the band modules. Operationally, I think the
Sierra performs somewhat better out of the box.

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

Date: Wed, 13 Jan 1999 17:36:30 -0500
From: "Mitch Dickson" <mitch@volstate.net>
To: <phillips@msoe.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29613] Re: The Importance of Baluns
Message-ID: <00ee01be3f45\$2ae81a20\$18338cd1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Vann, Balun Shmalun. If you try real hard the subject is easy to forget
:) Your inverted V is already at around 50 ohms. Hook up the coax and be
done with it. Take the Alfred E Neuman approach to baluns. If you must,
just make about 8 or 10 hand turns just below the feed point on the coax and
make a choke. Don't get me wrong, I have 2 or 3 of them, they are in a

storage drawer somewhere out in the shop. Don't make a simple inverted Vee as hard as baptizing a cat ;) CU Mitch (what was that Lee?)

>

Date: Wed, 13 Jan 1999 17:34:03 -0500
From: "W. D. (Doc) Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@LEHIGH.EDU>
Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [29614] SALE:Ten-Tec Scout
Message-ID: <199901131737_MC2-6680-E993@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Gang:

Have reluctantly decided to part with my trusty Ten-Tec Scout 555 rig.
Have had to abandon plans to build up a mobile operation.

The rig is in excellent condition, no scratches, never been used mobile or in the field. Pristine, and shows no sign of wear and tear. Rig can operate from QRP levels to 50 watts out on all bands. If desired, one could disable the QRO brick and run it QRP/QRPP only.

Comes complete with all band modules for 40, 30, 20, 17, 16, 12, and 10 Metres. Modules are available for 160 Metres. Includes the matching Ten-Tec Power supply. Also comes with a brand new mobile mounting kit and several extra power cords.

Have original packing materials and original factory manuals.

Price = \$500.00 which includes shipping to CONUS. If interested, please let me know. Thanks for listening :-).

72/73,

--Doc Lindsey/K0EVZ
DSBF
P.O. Box 7187
Bismarck, ND 58507
E-Mail 70511.3041@compuserve.com

Date: Wed, 13 Jan 1999 15:56:58 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29615] Re: VXOs - a new(ish) twist
Message-ID: <Pine.BSI.3.96.990113155537.7834A-100000@usr01.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Now I know I'm getting too old for this stuff. The article I'm referring to is in the Sept/Oct 1997 issue of Applied Microwave & Wireless.

Never trust your memory as you get older. Never. (mumble, mumble.....)

On Wed, 13 Jan 1999, Chris Trask wrote:

>
> You could make a very good variable inductor using a transductor.
> See my article in the Nov/Dec issue of Applied Microwave & Wireless.
>
> On Wed, 13 Jan 1999, Laura Denise Halliday wrote:
>
> >
> > The January 1999 issue of RadCom arrived yesterday,
> > and one of the items in Technical Topics was on VXOs.
> >
> > The idea is that the best VXOs use variable inductors,
> > but good variable inductors are hard to do well. So
> > it discusses a VXO that uses a variable capacitor at
> > the other end of a lumped-element quarter-wave trans-
> > mission line, thus flipping the reactance over and
> > making it look like a variable inductor. It refers
> > to an article that was in Ham Radio, January 1982.
> >
> > With modern (fast) op amps you might also be able to
> > solve your inductor problems with a gyrator. You might
> > also be able to make active IF filters with op amps.
> > Hmmm...
> >
> > No, I haven't tried any of this (yet). It's in the
> > Things To Try queue, which shows no signs of getting
> > shorter.
> >
> > The same issue of RadCom also has part 2 of G3PLX's
> > article on PSK31, and the beginning of an article on

```
> > an AD9850-based VFO.
> >
> > Laura Halliday VA3LDH      "Que les nuages soient notre
> > Grid: FN03gs                pied a terre..."
> >                               - Hospital/Shafte
> >
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Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

```

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```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Wed, 13 Jan 1999 18:06:35 -0500
From: Tom Palmer <n1tp@worldnet.att.net>
To: talljazz@teleport.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29616] Re: Fox Alert!!
Message-ID: <369D26FB.6DB9880C@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Point that rotatable dipole toward Florida! Oregon is a "far piece"
for QRP from the Sunshine State. Thank you, Tom, N1TP, Naples.

Dan Presley wrote:

> "Round 2" for me-N7CQR on Thursday 1/14 (0300-0500 Fri 1/15 UTC). I'll be
> operating from the QTH of KA7OZO, Dave Kidd(using my call), and will be
> using a variety of antennas-he has a rotatable 40 M dipole, G5RV at 50 Ft,
> and a vertical. This way, we ought to increase our coverage! I'll be on
> 7043 +/-, and let's see if we can break the 100 qso mark! As before, I'll
> be using RIT, and occasional listening on my freq for the 'stuck' guys.
> Hope you east coasters can stay up late-the band seems to open nice & long
> around 0400.
> Dan N7CQR

Date: Wed, 13 Jan 1999 18:23:34 -0500
From: w2xn@juno.com (Fred J Kalt)
To: qrp-1@lehigh.edu
Subject: [29617] Fw: Re: Fox Alert!!
Message-ID: <19990113.182335.-844001.2.w2xn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Tom, N1TP, said to point that rotatable dipole toward Florida. I agree,
also point the rotatable vertical toward Florida also. (chuckle :-)

Fred W2XN
Lakeland, FL
W5YI-VE Skywarn #POL-007 Polk County ARES Net Manager AR QRP
#233 QRP-L #1728
My Web Page:
<http://www.geocities.com/ResearchTriangle/Thinktank/5344/>

----- Forwarded message -----
From: Tom Palmer <n1tp@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Date: Wed, 13 Jan 1999 18:06:35 -0500
Subject: Re: Fox Alert!!
Message-ID: <369D26FB.6DB9880C@worldnet.att.net>
References: <v01530503b2c2bf922434@[216.26.2.44]>

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> around 0400.
> Dan N7CQR

End of QRP-L Digest 1335

